November 1975 Number 375-Part I

Solar-Geophysical Data prompt reports

Data for October 1975–September 1975

Explanation of Data Reports Issued as Number 366 (Supplement) February 1975

ERRATA PAGE 7

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Solar - Geophysical Data

NO. 375 NOVEMBER 1975

Part I (Prompt Reports)

DATA FOR
OCTOBER 1975
SEPTEMBER 1975

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

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SOLAR - GEOPHYSICAL DATA

No. 375

Issued in two parts

Hope I. Leighton, Editor

J. Virginia Lincoln, Director
Solar - Terrestrial Data Services Division

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Note: A = Part I, B = Part II.

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OCTOBER 1975 DATA

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ALERT PERIODS

INTERNATIONAL URSIGRAM
AND WORLD DAYS SERVICE

OCTOBER 1975

PRESTO MESSAGES (THE RAPID REPORT OF MAJOR EVENTS)

BOULDER 07/1315Z WEAK MAGSTORM IN PROGRESS 07/1200.

SUMMARY OF THE GEOALERT WWA MESSAGES

Message serial number	Date of issue	Date of observation	Wolf number	10 cm solar flux	A index	Active Regions: Location Lat-Long	Flares: Total	Flares: M	Flares: X	Outstanding events	Forecasts: Date	Forecasts: Location Lat-Long	Forecasts: Desc*	Alert Situations
274	1	30	11	76	2	N32E76	0	0	0		1	N32E76	Q	SOLQUIET MAGQUIET
275	2	1	11	76	6	N32E67	0	0	0		2	N32E67	Q	SOLQUIET MAGQUIET
276	3	2	11	78	3	N32E54	0	0	0		3	N32E54	Q	SOLQUIET MAGALERT MINOR 06/11
277	4	3	11	78	7	N32E41	0	0	0		4	N32E41	Q	SOLQUIET MAGALERT MINOR 06/11
278	5	4	11	76	6	N32E30	0	0	0		5	N32E30	Q	SOLQUIET MAGALERT MINOR 06/11
279	6	5	11	76	5	N33E17	1	0	0		6	N33E17	Q	SOLQUIET MAGALERT MINOR 06/11
280	7	6	11	75	20	N33E03	0	0	0		7	N33E03	Q	SOLQUIET MAGALERT MINOR 07/09
281	8	7	13	74	25	N32W09	0	0	0		8	N32W09	Q	SOLQUIET MAGALERT MINOR 07/11
282	9	8	22	74	27	N32W22 S11E46	1 0	0 0	0 0		9	N32W22 S11E46	Q Q	SOLQUIET MAGALERT MINOR 09/11
283	10	9	11	76	28	N32W34	3	0	0		10	N32W34	Q	SOLQUIET MAGALERT MINOR 10/11
284	11	10	11	75	21	N32W46	0	0	0		11	N32W46	Q	SOLQUIET MAGALERT MINOR 11
285	12	11	11	74	6	N32W58	0	0	0		12	N32W58	Q	SOLQUIET MAGNIL
286	13	12	26	75	13	N33W75 N06E30	0 0	0 0	0 0		13	N33W75 N06E30	Q Q	SOLQUIET MAGQUIET
287	14	13	43	79	7	N33W84 N06E16	0 0	0 0	0 0		14	N33W84 N06E16	Q Q	SOLQUIET MAGQUIET
288	15	14	26	80	12	N06E01	0	0	0		15	N06E01	Q	SOLQUIET MAGQUIET
289	16	15	43	81	5	N06W12	0	0	0		16	N06W12	Q	SOLQUIET MAGQUIET
290	17	16	17	79	8	N06W25	0	0	0		17	N06W25	Q	SOLQUIET MAGQUIET
291	18	17	24	79	6	N06W39 N03E68	0 0	0 0	0 0		18	N06W39 N03E68	Q Q	SOLQUIET MAGQUIET
292	19	18	24	80	6	N06W52 N03E54	0 0	0 0	0 0		19	N06W52 N03E54	Q Q	SOLQUIET MAGQUIET
293	20	19	26	79	2	N06W68 S16E45	0 0	0 0	0 0		20	N06W68 S16E45	Q Q	SOLQUIET MAGQUIET
294	21	20	11	78	4	N05W83	0	0	0		21	N05W83	Q	SOLQUIET MAGQUIET
295	22	21	00	76	7	SPOTNIL	0	0	0		22	SPOTNIL		SOLQUIET MAGQUIET
296	23	22	00	75	5	SPOTNIL	0	0	0		23	SPOTNIL		SOLQUIET MAGALERT MINOR 23/24
297	24	23	00	75	6	SPOTNIL	0	0	0		24	SPOTNIL		SOLQUIET MAGALERT MINOR 24/25
298	25	24	00	74	4	SPOTNIL	0	0	0		25	SPOTNIL		SOLQUIET MAGNIL
299	26	25	00	73	4	SPOTNIL	0	0	0		26	SPOTNIL		SOLQUIET MAGQUIET
300	27	26	00	73	4	SPOTNIL	0	0	0		27	SPOTNIL		SOLQUIET MAGQUIET
301	28	27	00	73	4	SPOTNIL	0	0	0		28	SPOTNIL		SOLQUIET MAGQUIET
302	29	28	00	73	5	SPOTNIL	0	0	0		29	SPOTNIL		SOLQUIET MAGQUIET
303	30	29	00	72	12	SPOTNIL	0	0	0		30	SPOTNIL		SOLQUIET MAGQUIET
304	31	30	00	73	9	SPOTNIL	0	0	0		31	SPOTNIL		SOLQUIET MAGALERT 02/06
305	01	31	00	71	14	SPOTNIL	0	0	0		01	SPOTNIL		SOLQUIET MAGALERT MINOR 02/06

RELATIVE SUNSPOT NUMBERS

ZURICH, R_Z

	1974 FINAL		1975 PROVISIONAL									
DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	16	0	30	0	0	0	26	7	23	37	14	15
2	27	0	30	22	7	0	33	11	18	36	16	8
3	39	9	28	28	14	0	29	8	22	46	19	9
4	45	16	19	27	11	0	28	7	22	78	29	10
5	36	17	18	20	14	21	28	7	23	93	25	8
6	25	8	23	26	14	0	20	7	33	104	24	10
7	22	7	32	34	7	15	16	0	23	102	24	9
8	14	8	29	29	13	17	8	0	19	89	23	16
9	7	0	37	22	19	9	0	0	16	83	17	15
10	24	9	31	18	20	13	9	0	23	80	10	8
11	27	21	30	13	20	0	8	9	29	72	10	8
12	24	31	31	18	15	0	0	0	33	45	16	8
13	16	34	32	9	15	0	0	0	49	52	25	16
14	8	33	11	8	17	0	7	0	44	34	17	30
15	16	35	20	8	18	0	7	8	43	31	8	23
16	20	40	17	8	30	0	8	19	39	26	14	19
17	20	36	16	0	33	0	0	17	23	19	14	8
18	18	34	20	0	24	0	8	12	29	16	18	18
19	34	43	20	0	20	0	0	16	36	8	13	16
20	40	48	18	7	16	0	0	8	26	22	30	12
21	40	40	16	8	9	0	0	7	30	23	27	7
22	44	37	16	8	0	0	8	0	27	0	23	0
23	44	28	15	8	0	7	8	12	19	8	0	0
24	37	26	7	12	0	8	7	20	30	8	8	7
25	29	9	7	9	0	7	0	24	33	11	8	8
26	25	8	7	0	13	7	0	33	30	16	8	0
27	23	8	0	8	7	26	7	38	29	18	0	0
28	13	20	7	8	0	19	13	36	26	10	0	0
29	7	16	7		0	16	0	23	20	10	8	0
30	7	19	7		7	29	0	22	27	21	7	0
31		13	0		8		8		34	21		0
MEAN	25.8	20.5	18.7	11.6	12.0	6.2	8.7	11.4	28.3	39.3	14.1	9.8

1974 yearly mean = 34.5

DAILY SOLAR SOLAR FLUX AT 2800 MHz
OTTAWA ARO

FLUX ADJUSTED TO 1 A.U., S_a

	1974		1975									
DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	98.2	79.7	78.1	78.8	78.7	78.2	76.3	71.4	78.7	91.6	87.8	76.4
2	92.8	78.7	75.8	72.3	72.4	71.2	81.1	73.8	76.8	95.4	87.9	78.1
3	96.2	76.7	77.1	74.3	73.4	72.2	79.6	70.8	77.1*	97.0*	87.8	78.4
4	99.5	74.7	74.4	75.4	72.8	73.8	79.6	78.4	76.8	104.6	92.8	76.3
5	97.6*	73.2	73.7	76.5	71.3	73.7	78.4	69.3	76.8	107.9	94.4	76.1
6	92.3	71.9	73.8	81.1	72.4	73.7	75.9	68.2	76.1	120.0*	94.8	75.1
7	85.6	71.1	75.7	79.4	71.9	74.3	73.6	68.1	74.1	123.2	91.1	74.3
8	82.8	69.6	77.7	78.8	72.5	73.6	71.9	67.5	74.8	123.7	88.5	74.8
9	78.9	69.6	79.9	77.1	73.8	73.4	70.6	67.7	73.3	115.9	84.3	75.4
10	78.4	70.4	80.5	76.7	73.3	72.4	70.1	68.8	73.8	116.5	82.5	74.3
11	77.3	76.2	81.2	74.8	73.8	72.3	69.8	68.1	77.6	107.3	81.1	73.3
12	79.1	77.9	82.4	74.9	74.2	70.8	69.6	68.4	82.7	104.5*	78.2*	74.8
13	76.1	78.8	80.4	73.7	75.6*	70.7	69.1	67.9	86.5*	98.8	75.2	79.8
14	77.7	78.2	77.7	72.8	75.8	69.7	68.7	68.5	89.8	90.9*	74.2	80.8
15	80.8	83.2	77.4	69.7	73.4	69.7	68.8	68.9	85.6	86.8	74.1	80.3
16	82.5	88.3	76.5	71.4	76.8	69.2	68.5	71.4	83.6	82.8	74.3	78.5
17	84.6	88.3	74.7	69.3	75.3	69.6	68.3	70.2	81.2	79.8	74.8	78.9
18	88.5	90.3	75.8	69.3	74.2	69.3	68.7	78.2	82.8	76.4	76.2	79.2
19	96.8	91.9	74.1	70.8	72.9	67.5	68.9	71.8	81.9	76.7	76.2	78.8
20	95.6	87.3	73.8	69.5	71.9	68.8	68.6	72.5	83.3	77.2	76.5	77.1
21	96.2	86.8	74.5	68.9	71.2	68.2	69.7	68.7	83.1	80.8	76.7	75.7
22	98.7	84.4*	73.6	68.3	69.3	67.8	70.8	69.9	82.7	78.5	75.3	74.2
23	98.1	83.8	72.7	68.3	67.6	68.7	78.6	72.9	82.8	76.8	76.1	74.3
24	95.9	80.1	71.8	68.6	67.4	69.3	78.6	75.9	79.3	77.8	76.8	72.7*
25	94.5	78.9	70.3	69.4	67.5	71.6	78.2	77.7	79.8	80.6	76.7	72.1
26	92.2	75.8	70.5	68.8	68.6	72.1	69.8	79.8	80.8	81.3	76.7	71.9
27	90.8	74.3	70.1	69.4	67.3	74.4	70.5	81.5	78.5	83.6	75.7	72.1
28	86.6	73.7	70.7	68.6	67.8	74.8	70.6	80.7	76.5	83.3	76.1	71.7
29	83.8	74.1	70.4		69.8	73.2	71.8	79.4	75.5	84.7	75.9	70.8
30	82.8	74.5	70.5		69.8	73.4	71.8	78.8	78.9	86.2	75.8	70.2
31		76.1	70.1		73.5		71.1		81.9*	86.7		69.9
MEAN	88.3	78.6	75.8	72.4	71.7	71.2	71.6	71.9	79.7	92.7	80.4	75.3

* adjusted for burst

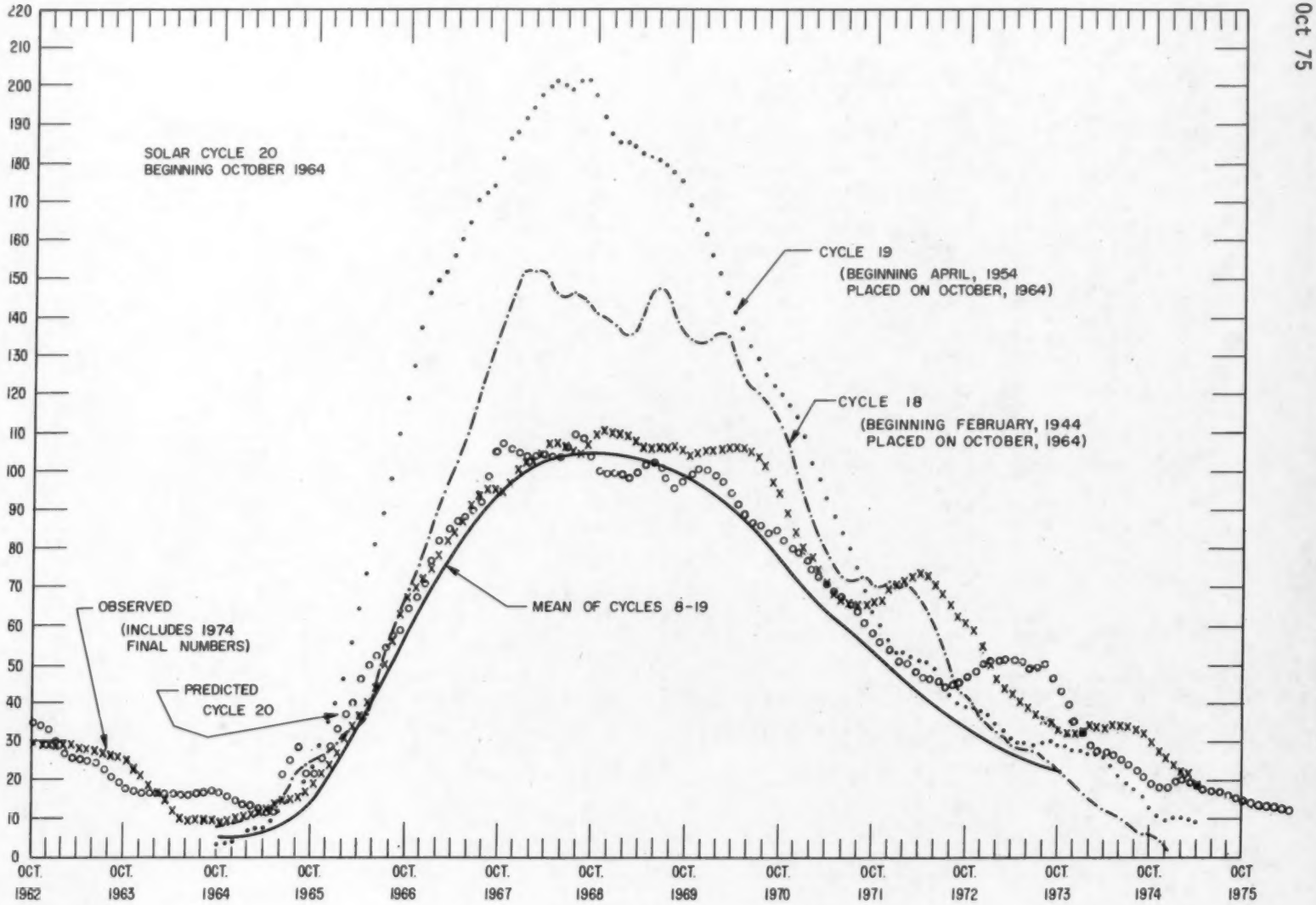
DAILY SOLAR INDICES

OCTOBER 1975

OCT 1975	YEAR DAY	BARTELS 27-DAY CYCLE NUMBER	SUNSPOT NUMBERS		OBSERVED FLUX	SOLAR FLUX ADJUSTED TO 1 A.U.								
			R_Z	$R_{A'}$	OTTAWA 2800	AFCRL 15400	AFCRL 8800	AFCRL 4995	OTTAWA 2800	AFCRL 2695	AFCRL 1415	AFCRL 606	AFCRL 410	AFCRL 245
1	274	5	15	9	76.2	524	271	119	76.4	73.5	50.2	38.6	22.3	8.3
2	275	6	8	8	78.0	525	272	119	78.1	75.0	50.7	39.8	24.1	8.3
3	276	7	9	8	78.3	525	276	120	78.4	74.8	51.9	39.7	24.5	8.6
4	277	8	10	9	76.3	526	274	119	76.3	74.9	48.7	39.7	22.6	8.5
5	278	9	8	9	76.1	525	275	118	76.1	73.8	49.1	38.9	21.8	8.1
6	279	10	10	10	75.2	528	272	116	75.1	71.4	47.2	37.5	21.3	8.2
7	280	11	9	9	74.5	525	276	115	74.3	71.2	47.0	36.8	22.5	8.0
8	281	12	16	12	74.1	517	275	115	74.0	71.1	44.0	36.7	21.1	8.4
9	282	13	15	14	75.6	521	279	119	75.4	72.7	46.4	37.0	22.1	10.1
10	283	14	8	9	74.5	518	281	115	74.3	71.3	47.2	36.4	21.6	8.3
11	284	15	8	9	73.6	518	280	117	73.3	72.0	47.4	36.8	21.7	8.9
12	285	16	8	14	75.1		279	119	74.8	74.0	48.3	36.8	22.4	8.8
13	286	17	16	21	79.4		279	122	79.0	75.5	50.5	37.8	21.6	8.8
14	287	18	30	23	80.4	526	282	125	80.0	76.3	52.5	36.8	21.2	8.2
15	288	19	23	20	80.8	527	277	125	80.3	76.5	58.5	38.2	21.0	8.3
16	289	20	19	16	79.1	528	275	120	78.5	76.7	52.0	36.6	22.0	8.0
17	290	21	8	15	79.5	522	279	121	78.9	76.4	52.2	36.6	21.5	8.1
18	291	22	18	12	79.8	523	277	121	79.2	76.2	52.5	37.1	22.6	8.3
19	292	23	16	11	78.6	523	275	120	78.0	75.3	52.2	38.5	22.9	8.4
20	293	24	12	10	77.8	523	273	120	77.1	74.9	51.6	40.6	23.4	8.4
21	294	25	7	3	76.4	524	270	120	75.7	73.3	49.7	38.3	22.4	8.0
22	295	26	0	0	74.9	524	271	117	74.2	71.8	49.8	38.2	21.6	8.1
23	296	27	0	0	75.0	526	270	118	74.3	70.5	49.7	37.3	21.0	8.7
24	297	1	7	1	73.5*	526	272	117	72.7*	70.1	49.5	38.5	22.2	8.4
25	298	2	0	0	73.0	524	265	117	72.1	70.1	48.3	38.0	22.0	8.3
26	299	3	0	0	72.8	521	263	115	71.9	69.2	48.1	37.4	21.4	7.6
27	300	4	0	0	73.0	522	269	115	72.1	70.5	46.8	39.8	22.1	8.0
28	301	5	0	0	72.6	529	271	117	71.7	69.1	47.4	37.2	21.8	7.9
29	302	6	0	0	71.8	522	268	114	70.8	67.2	44.5	37.4	21.4	8.0
30	303	7	0	0	71.2	523	270	114	70.2	68.0	47.5	37.7	22.1	8.2
31	304	8	0	0	71.0	523	274	112	69.9	68.2	45.4	37.7	20.7	8.0
MEAN			9.0	8.1	75.4	524	274	118	75.3	72.7	49.3	37.9	22.0	8.3

* Adjusted for burst.

Errata: Mean Values for Daily Solar Indices in July 1975 published in SGD 372-Part I should be corrected to the following: $R_{A'}$ = 28.5; Observed Ottawa 2800 MHz Flux = 77.2; Adjusted Ottawa 2800 MHz Flux = 79.7.



PREDICTED AND OBSERVED SUNSPOT NUMBERS

SMOOTHED OBSERVED AND PREDICTED SUNSPOT NUMBERS
CYCLE 20

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1964										9.6	10.2	11.0
1965	11.7	12.0	12.5	13.6	14.6	15.0	15.5	16.4	17.4	19.7	22.3	24.5
1966	27.7	31.3	34.5	37.4	40.7	44.6	50.3	56.6	63.1	67.6	70.2	72.7
1967	75.0	78.0	82.2	84.6	87.4	91.3	94.1	95.3	95.3	95.0	97.1	100.6
1968	102.6	102.9	104.7	107.2	107.6	106.6	105.2	104.0	107.0	109.9	110.6	110.1
1969	110.0	109.6	108.0	106.4	106.2	106.1	105.8	106.4	105.4	104.1	104.6	104.9
1970	105.6	106.0	106.2	106.1	105.0	105.3	103.8	101.0	97.2	93.9	89.4	84.1
1971	80.4	77.0	74.4	70.9	68.1	66.7	65.4	64.6	65.0	66.2	66.0	69.4
1972	70.0	71.2	72.4	73.4	72.9	70.5	68.2	65.5	62.2	60.6	58.7	55.1
1973	50.9	46.5	44.2	42.7	40.7	39.1	37.5	36.1	34.4	32.6	31.0	31.5
1974	32.7	34.4	34.0	33.9	34.6	34.5	34.0	33.1	32.1	30.3	27.6	25.2
1975	23.9	22.2	21.3	18.6	17.6 (12.1)	17.0 (15.1)	16.3 (17.1)	15.8 (19.1)	15.3 (--)	14.8 (--)	14.3 (--)	13.8 (--)
1976	13.4 (--)	13.0 (--)	12.7 (--)	12.4 (--)								

For each month, the upper figure is the observed or predicted Zürich smoothed sunspot number. The lower figure in parenthesis is the corresponding absolute value of the 90% prediction interval, an indication of the uncertainty above and below the predicted number. Observed numbers are those with no prediction intervals. The observed smoothed sunspot numbers are based on final Zürich numbers through 1974.

The predicted sunspot numbers are derived from a regression analysis based on cycles 8 through 19. Tests indicate that earlier cycles are from a different statistical population. From July 1968 - February 1970 a regression analysis based on cycles 1 through 19 was used because it had not then been proven that two populations exist.

Hα SOLAR FLARES

OCTOBER 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		CORD.	TYPE	TIME — UT	MEAS. AREA Mill. of Disk	CORR. AREA Sq. Deg.	
BOUL	01	1419	1423	1434	N39	E80	.998		7.6	15	SF	2	C	1423	21	.7	
ATHN	05	0851E	0854	0859	N34	E24	.722		7.2	90	SF	3	V		32		DE H
ATHN	05	0851E	0854	0859	N34	E24	.722		7.2	80	SF	3	C		32		DE H
MCMA	06	1355	1405	1450	N33	E14	.663	13875	7.6	55	SF		C	1405	35	.4	EH
MCMA	07	2024	2025	2038	N33	W03	.636	13875	7.6	14	SN		C	2025	50	.5	EH
RAMY	08	1406	1415	1420	N32	W20	.681		7.1	14	SF	4	C		45		DE
PALE	08	2341E	2342	2352D	N33	W21	.697		7.4	110	SF	3	C		23		
MANI	08	2343E	2343U	2355D	N32	W21	.687		7.4	120	SF	2	V	2343	20	.2	
MANI	09	0848E	0848U	0852D	N32	W26	.717		7.4	40	SF	2	V	0848	30	.4	F
CATA	09	0850	0850	0900	N33	W27	.733		7.3	10	SN	3		0850		.7	
ATHN	09	0851E	0851U	0856	N32	W26	.717		7.4	50	SF	4	V		43		FDE
ATHN	09	0851E	0851U	0856	N32	W26	.717		7.4	50	SF	4	C		48		FDE
RAMY	09	1618	1626	1639	N31	W34	.762		7.1	21	SF	3	C		36		F
BOUL	09	1624E	1628	1643	N32	W33	.763		7.2	190	SF	1	P	1628	10	.1	
CATA	12	1225E	1250	1310D	N05	E37	.626		15.3	450	SF	3		1250		.7	
CATA	12	1325E	1325	1335D	N05	E37	.626		15.3	100	SF	3		1325		1.1	
CATA	13	0825	0825	0830D	S11	E60	.860	13892	17.9	50	SN	3		0825		4.9	
MCMA	13	1615	1635	1705	N05	E20	.393	13890	15.2	50	SN		C	1635	100	1.1	E
ISTA	14	0804		0820	N05	E16	.339		15.5	12	SN						
CATA	14	0845E	0845	0845D	N06	E09	.269		15.0		SN	3		0845		1.2	
MCMA	14	1519E		1745D	N05	E05	.221	13890	15.3	1460	SN		P	1521	40	.4	EK
BOUL	14	1537	1538	1635	N 5	E 5	.221		15.0	58	SF	2	C	1538	64	.6	
BUCA	15	0840		0855	N02	W05	.176		15.0	15	SN		P	0842	107	1.2	
CATA	15	0845E	0845	0855	N02	W05	.176		15.0	100	SF	3		0845		.9	
ISTA	20	0815		0827	S10	W45	.702		17.8	12	SN						
ATHN	23	0638	0639	0644	N 2	E 7	.199		23.8	6	SN	4	V		16		DE

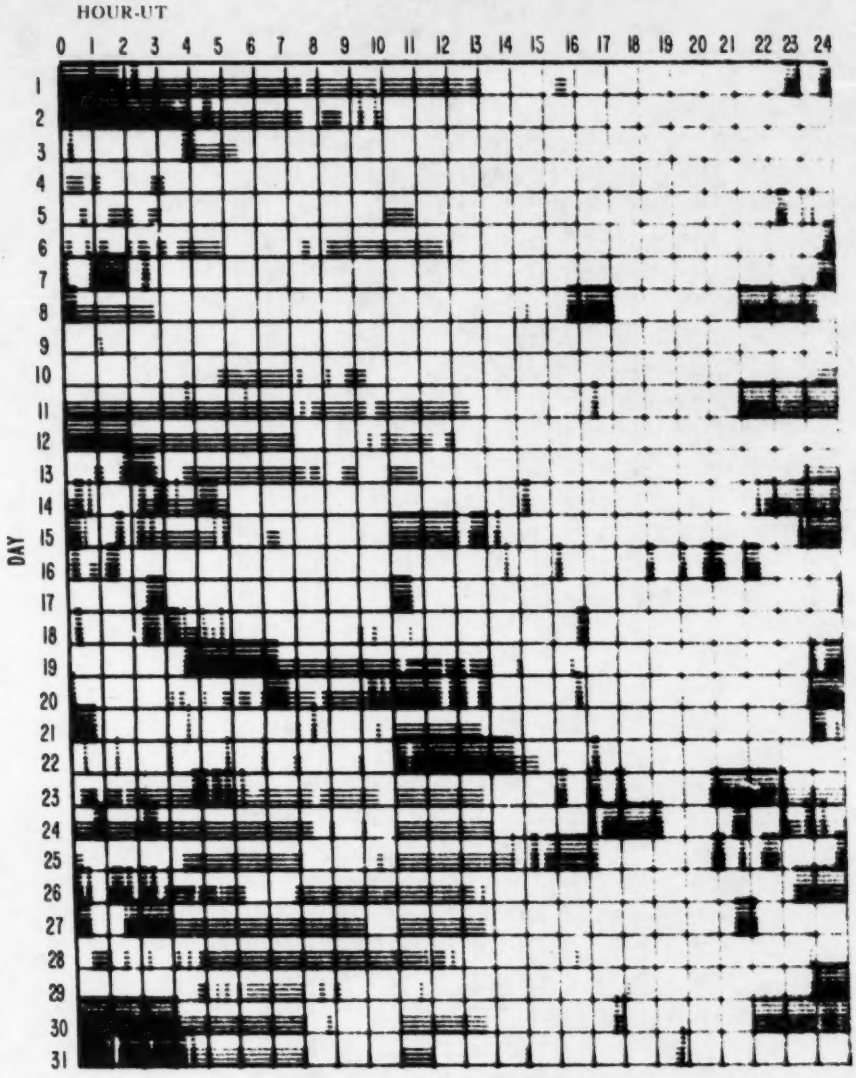
"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by a high speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the calcium II lines H and K.
P = Flare shows helium D_3 in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked asymmetry in Hα line suggests ejection of high velocity material.
S = Brightness follows disappearance of filament (same position).
T = Region active all day.
U = Two bright branches, parallel (||) or converging (Y).
V = Occurrence of an explosive phase: important and abrupt expansion in about a minute with or without important intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide Hα line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

OCTOBER 1975



Observatories included in total patrol:

Athenes	Catania	Kodaikanal	Mitaka	Tehran
Boulder	Herstmonceux	Manila	Palehua	Upice
Bucharest	Istanboul	McMath-Hulbert	Ramey	Wendelstein

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

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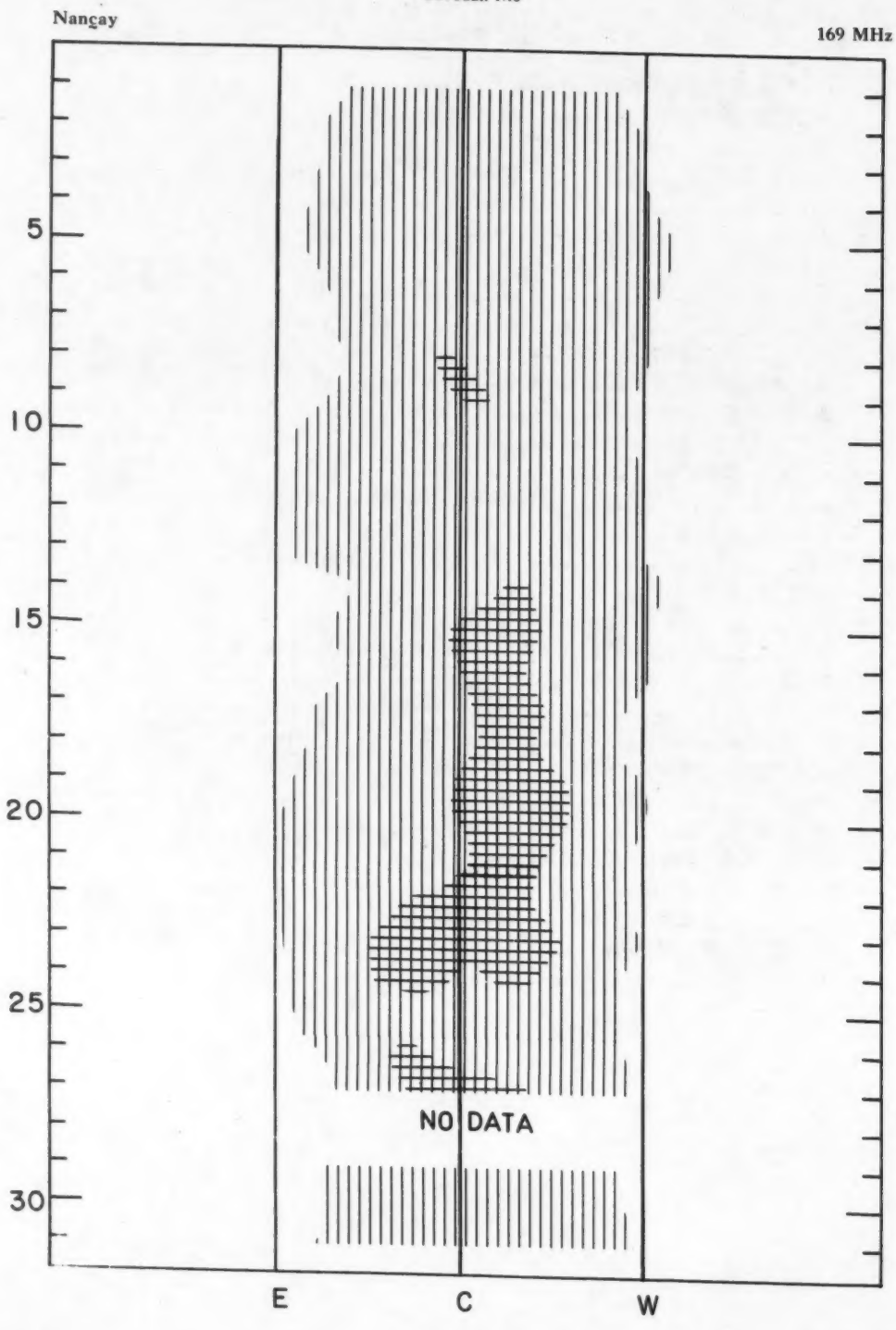
Oct 75

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATION

OCTOBER 1975

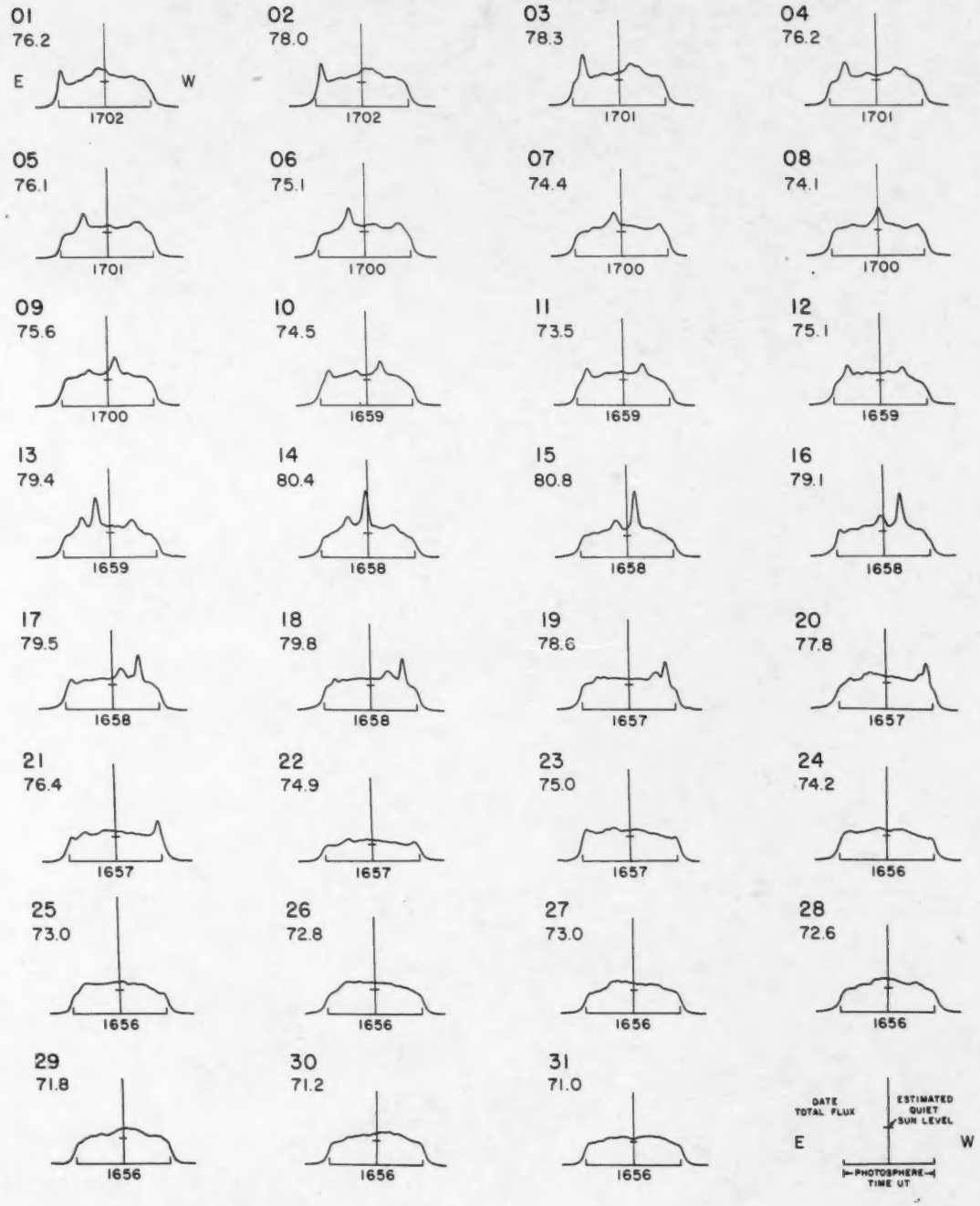


EAST - WEST SOLAR SCANS

October 1975

ALGONQUIN RADIO OBSERVATORY
CANADA

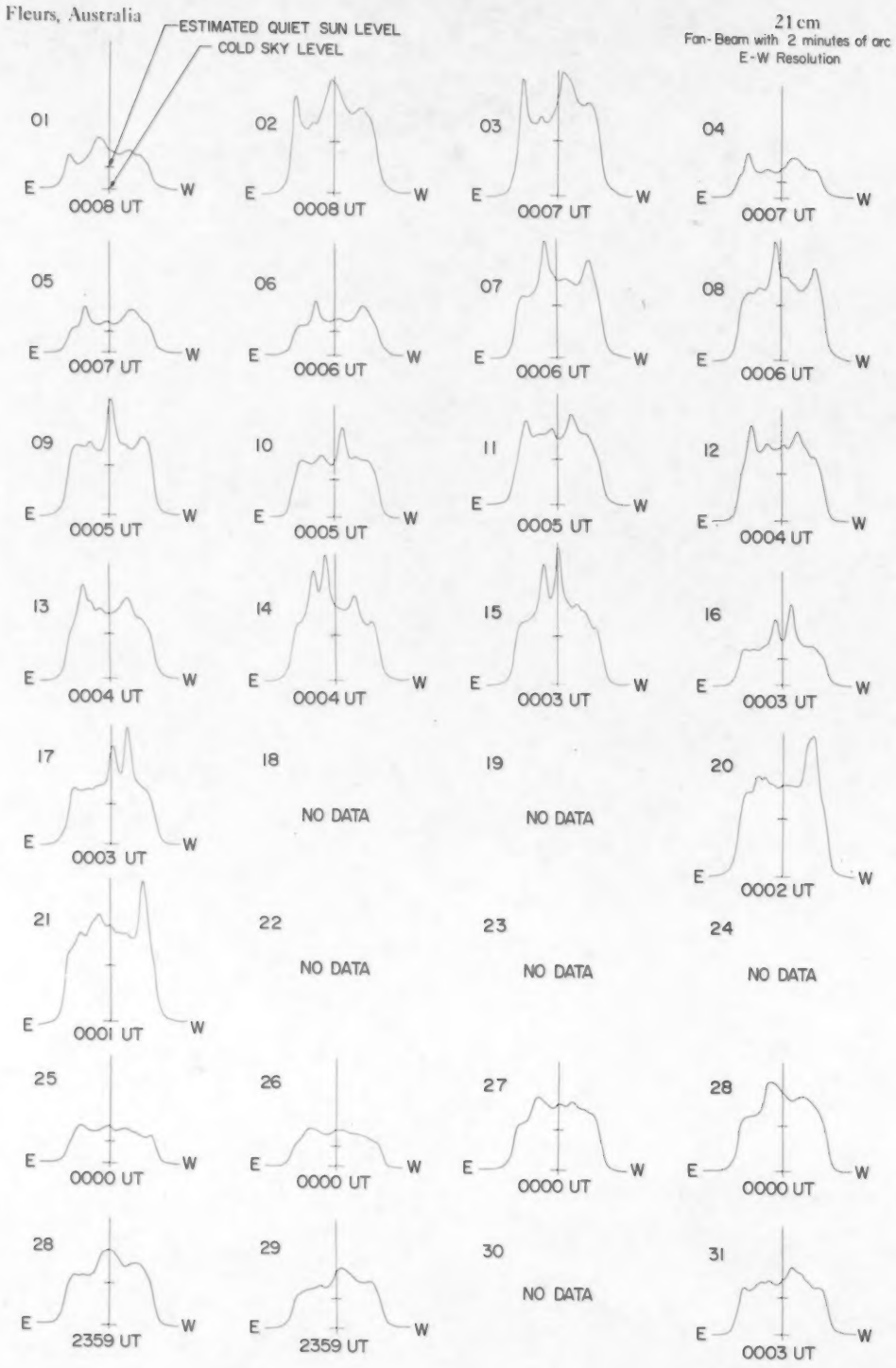
10.7 cm.
Fan Beam with 1.5 minutes of arc
E - W Resolution



14
Oct 75

EAST-WEST SOLAR SCANS

OCTOBER 1975



EAST-WEST SOLAR SCANS

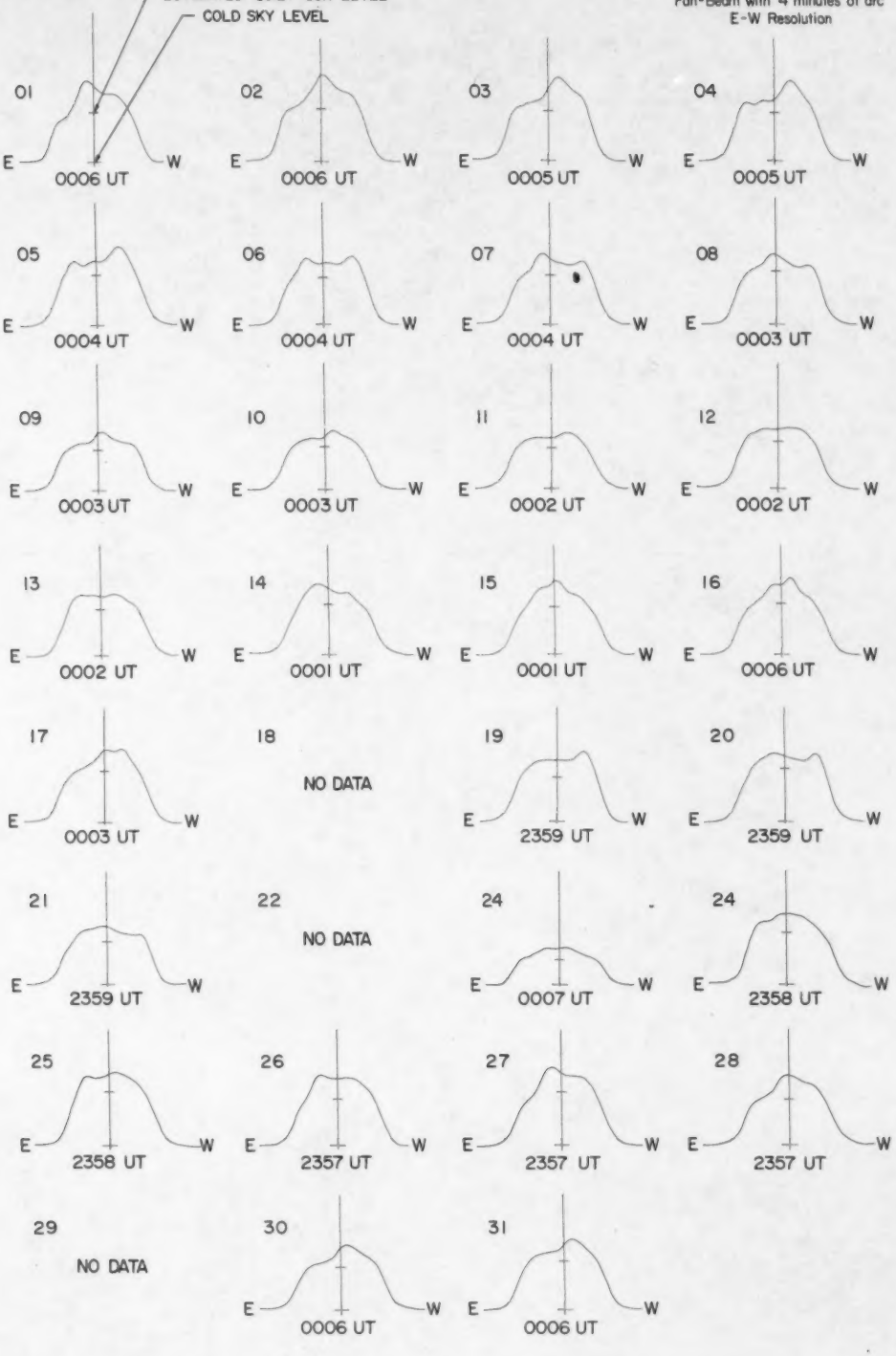
OCTOBER 1975

Fleurs, Australia

ESTIMATED QUIET SUN LEVEL

COLD SKY LEVEL

43 cm
Fan-Beam with 4 minutes of arc
E-W Resolution



SOLAR RADIO EMISSION
SELECTED FIXED FREQUENCY EVENTS

OCTOBER 1975

	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
2	2800	OTTA	27 RF	1835		105	0.6	0.5		
	2800	OTTA	24 R	1835	1845	10	0.6	0.3		
	2800	OTTA	24P R	1845		75	0.6			
	2800	OTTA	26 F	2000	2020	20	-0.6	-0.3		
3	2800	OTTA	1 S	2140.9	2142	2	1.4	0.8		
	2695	PENT		2140.9						NULL
7	2800	OTTA	20 GRF	2025	2030	30	0.6	0.3		
8	2695	BOUL	45 C	2335	2340.5	2.5	9	3		
	2800	OTTA	45 C	2337	2339.5	4	3	1.4		
9	2800	OTTA	20 GRF	1615	1625	25	1	0.5		
13	2800	OTTA	20 GRF	1620	1635	35	1.4	0.7		
23	2695	BOUL	3 S	1900.5	1901.5	4.5	5	2		
24	2800	OTTA	28 GRF	1435	1545	220	1.4	0.7		

Observatories:

BOUL = Boulder MANI = Manila OTTA = Ottawa ARO PENT = Penticton SGMR = Sagamore Hill

Explanation of Type Code:

1 Simple 1	6 Minor	22 Simple 3F	27 Rise and Fall	32 Absorption	44 Noise Storm in Progress
2 Simple 1F	7 Minor +	23 Simple 3AF	28 Precursor	40 Fluctuation	45 Complex
3 Simple 2	8 Spike	24 Rise	29 Post Burst Increase	41 Group of Bursts	46 Complex F
4 Simple 2F	20 Simple 3	25 Rise A	30 Post Burst Increase A	42 Series of Bursts	47 Great Burst
5 Simple	21 Simple 3A	26 Fall	31 Post Burst Decrease	43 Onset of Noise Storm	48 Major
					49 Major +

SOLAR WIND

Interplanetary Scintillations

OCTOBER 1975

UCSD 74MHZ SCINTILLATIONS

DAY	3C48		3C144		3C147		3C161		3C237		3C273		3C298		3C459	
	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR
1			488	34									345	12		
2									449	77			285	4		
3													366	79		
4									307	15			385	35		
5	279	46							290	8			493	90		
6	353	113	347	155					434	87			355	32		
7	476	*	388	122			415	102	496	25			388	21		
8	432	*	359	*									468	51		
9	641	309	453	*	612	233	524	129					499	67		
10	439	*	382	12			523	32					468	42		
11	429	*	736	192									401	23		
12			548	79			665	89	595	94			522	12		
13			326	119			533	21					409	7		
14									461	84			443	21		
15													344	18		
16			448	173			520	116					464	12		
17	471	*							503	119	431	142	460	40		
18			443	150					745	172			369	22		
19													491	81		
20											292	106	594	111	326	68
21	441	26	423	184							540	111	504	137	270	20
22			393	134					258	39			486	131	329	40
23													524	67		
24	288	86													299	13
25													506	193		
26									414	110			464	140		
27									338	90	402	144	421	151		
28									338	19			435	211		
29							444	135	385	97					361	82
30									501	*						
31	321	52					386	*			298	69				

OCTOBER 5				15				25			
	UT	LAT	DIST	DLON	UT	LAT	DIST	DLON	UT	LAT	DIST	DLON
3C48	9.	11.	1.27	5.	8.	10.	1.28	3.	8.	9.	1.28	1.
3C144	13.	5.	1.13	15.	12.	4.	1.17	13.	12.	3.	1.21	11.
3C147	12.	12.	1.11	14.	11.	11.	1.15	13.	11.	10.	1.18	11.
3C161	14.	-2.	1.07	14.	14.	-2.	1.11	13.	13.	-3.	1.14	11.
3C237	18.	-2.	0.66	48.	17.	-1.	0.78	38.	17.	0.	0.88	28.
3C273	20.	32.	0.14	84.	19.	13.	0.30	73.	19.	7.	0.45	63.
3C298	22.	49.	0.44	-57.	21.	68.	0.35	-46.	21.	71.	0.33	38.
3C459	6.	8.	1.28	-5.	6.	8.	1.27	-7.	5.	7.	1.24	-9.

* indicates data for which no error estimate is available, because only two antennas were operating.

SOLAR X-RAYS BY SATELLITE
SMS GOES
OCTOBER 1975

.5 - 4Å Hourly Averages (10^{-6} watts/m^2)

MO DA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
10/ 1	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/ 2	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/ 3	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.02	B	B	B
10/ 4	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/ 5	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.03	B	B	B	0.01	B	B	B
10/ 6	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.13	B	B	B	B	B
10/ 7	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/ 8	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B
10/ 9	B	M	B	0.28	B	B	B	B	B	B	B	0.01	B	B	B	B	B	B	B	B	B	B	M	M	0.01
10/10	B	B	B	B	B	0.06	0.56	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.03
10/11	B	0.80	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.17	0.04
10/12	0.01	0.03	B	B	B	B	B	B	M	M	M	M	M	M	M	M	M	B	B	B	M	M	B	B	B
10/13	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.01	B	B	B	B	B	B
10/14	B	B	B	B	B	B	0.05	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/15	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/16	B	B	B	B	B	B	0.10	B	B	B	B	B	B	B	B	B	B	B	B	B	0.04	0.04	B	B	B
10/17	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/18	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/19	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/20	B	B	B	B	B	B	0.24	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/21	B	B	B	B	B	B	B	0.03	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/22	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/23	B	B	B	B	B	B	0.09	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/24	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/25	0.01	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/26	B	B	B	B	B	B	B	B	B	B	M	M	M	M	M	M	M	M	M	M	M	M	M	M	B
10/27	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.01	B	B	B	B
10/28	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.04	0.11	B	B	B	B
10/29	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	M	M	B	B	B	M	B	B
10/30	M	M	B	M	M	M	M	M	M	M	M	M	M	M	M	B	B	B	B	B	B	B	B	B	B
10/31	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B

Note: "B" indicates the flux was below the cut-off levels.
"M" denotes periods of missing data.

SOLAR X-RAYS BY SATELLITE
SMS GOES
OCTOBER 1975

1 - 8Å Hourly Averages (10^{-5} watts/m^2)

MO DA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
10/ 1	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/ 2	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.02	0.02	B	B
10/ 3	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/ 4	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.13	B	B	B	B	B	B	B	B
10/ 5	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/ 6	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/ 7	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/ 8	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	B	0.01	B	B	B	B
10/ 9	B	M	B	0.19	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	M	0.01
10/10	B	B	B	B	B	0.02	0.33	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.02
10/11	B	0.73	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.08	0.04
10/12	B	0.05	B	B	B	B	B	B	M	M	M	M	M	M	M	M	M	B	B	B	M	M	B	B	B
10/13	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/14	B	B	B	B	B	B	0.05	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/15	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.05	0.09	B	B	B
10/16	B	B	B	B	B	B	0.09	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/17	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/18	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/19	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/20	B	B	B	B	B	B	0.26	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.01
10/21	B	B	B	B	B	B	B	0.03	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/22	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/23	B	B	B	B	B	B	0.09	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/24	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/25	0.01	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/26	B	B	B	B	B	B	B	B	B	B	M	M	M	M	M	M	M	M	M	M	M	M	M	M	B
10/27	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10/28	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.04	0.18	B	B	B	B
10/29	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	M	M	B	B	B	M	B	B
10/30	M	M	B	M	M	M	M	M	M	M	M	M	M	M	M	B	B	B	B	B	B	B	B	B	B
10/31	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B

Note: "B" indicates the flux was below the cut-off levels.
"M" denotes periods of missing data.

INFERRED IP MAGNETIC FIELD

BARTELS ROTATION	DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
1901	JUL 23	TA	A*	TA	A*	T	A*	T	A	A	A	A	A	A	T	A*	TA	T	T	A	A	A	A	TA	A	T	-	AT	A	T	T	T	T	T	T	T	T	T	A	T	T	T	T	T	T	A	A	TA	-
1902	AUG 19	A	-	A	-	A	A	A	A	A	A	A	A	A	A	TA	T	A	A	A	A	A	A	A	T	T	A	A	A	A	A	A	T	T	T	T	T	T	TA	A	A	A	TA	T	A	A	A	A	TA	A	-
1903	SEP 15	A	A	TA	T*	A	A	A	A	A	A	AT	A	A	A	A	T	T	A	AT	A	A	A	A	-	A	-	A	-	A	-	A	-	A	T	T	T	T	T	T	T	T	A	-	T	T	T	A	TA	TA	A	T
1904	OCT 12	T	T	A	-	TA	-	A	A*	A	T	A	T	TA	T	A	A	A	A	A	T	TA	A	TA	A	TA	A	A	A	T	AT	T	T	A	AT	A	T*	T	T	A	-	A	A*	T	AT	T	T	TA	T	TA*	A	A
1905	NOV 8	A	A	T	A	AT	A	AT	AT	TA	AT	T	AT	A	T	TA	T*	A	A	A	A	A	A*	TA	A	T	A	A	A	A	TA	AT	T	T	A	T	TA	A	T	T	A	T	A	T	AT	T	A	A	A	A	A	AT	AT	T	T
1906	DEC 5	T	T	T	T	TA	AT	T	-	T	-	T	T	T	T	A	AT	A	-	TA	T	TA	T	A	A	AT	-	A	-	A	T	T	TA	A	A	T	T	T	T	T	T	A	A*	A	T	T	T	T	T	T	TA	AT	TA	T
1907	1973 JAN 1	T	T	T	T	T	T	T	T	TA	AT	T	T	A	T	AT	-	A	AT	A	T	A	-	AT	-	A	TA	A	A	A	A	A	A	A	A	A	A	T	T	A	-	T	-	T	T	T	-	TA	AT	T	-	T	T	T	T
1908	JAN 28	T	T	A	A	T	T	TA	T	AT	T	T	T	T	T	A	T	A	A	A	A	TA	A	A	A	A	A	AT	T	TA	A	AT	A	TA	A	AT	AT	-	A	A	A	A	T	T	T	T	AT	T	T	T	T	T	T	T	T
1909	FEB 24	AT	T	AT	T	AT	TA	AT	T	T	T	T	-	AT	TA	AT	A	T	A	T	T	A	A	A	A	A	A	A	AT	TA	A	AT	A	A	A	A	AT	TA	A	A	T	A	A	AT	A	T	T	T	T	T	T	T	T
1910	MAR 23	T	T	T	T	T	T	T	A	T	T	T	T	T	T	T	TA	AT	A	T	TA	A	A	A	A	A	-	A	A	A	A	T	TA	A	A	A	A	A	AT	AT	T	-	T	-	T	T	A	T	T	T	T	AT	T	*	T	T
1911	APR 19	T	T	T	AT	T	T	-	A	T	T	T	AT	T	A	A	AT	T	T	T	T	TA	A	A	A	A	AT	A*	A	A	-	AT	A	TA	A	A*	-	T	A	A	T	TA	T	T*	-	AT	A	A	T	T	-	A	-	T	A	A*
1912	MAY 16	T	T	T	T	T	T	T	T	AT	T	-	T	-	TA	T	T	A	A	AT	AT	T	T	AT	A	A	A	-	A	A	A	-	A	A	A*	A	A	A	A	A	A	A	A	A	-	T*	A	-A	A	A	-	-	T	T	T
1913	JUN 12	TA	T*	-	T	*	-	T	T	TA	T*	A	A	T	T	-	T	*	T	T*	T	T	T	T	T	AT	AT	A	A	A	A	TA	T	*	-	T	T	-	A	A	A	A	A	A	A*	A	AT	T	-	T	T	A	A	-	A	T	T
1914	JUL 9	T	T	T	T	A	A	T	T	-	T	AT	A	T	T	T	A	T*	-	A	A	AT	*	-	A	A	T	T	A	TA	-	T	T	T	T	T	A	A	-	A*	A	A	A	A*	A	TA	-	A	A	TA	T	T*	T	T	T
1915	AUG 5	T	T	A	A	A	A	T	AT	A	A	A	T	T	T	T*	T	T	AT	*	T	AT	T	T	A	AT	T	T	A	A	A	TA	T	T	T	T	A	A	A	A	A	AT	A	A*	A	AT	A	A	A	A	T	TA	A	A*	A	A
1916	SEP 1	T	TA	T*	T	T	T	A	AT	A	A	A	TA	*	A	A	*	T	T	T	T	T	T	T	A	A	A	A	A	T	T	T	T	T	T	A	T	T	A	A	A*	T	A	A	T*	A	A	A	A	A	TA	A*	A	A
1917	SEP 28	A	A*	TA	A	T	AT	T	T	A	A	A	A	A	A	T	A	ATA	A*	AT	T*	AT	AT	T	T	T	T	T	T*	T	T	T	T*	T	T	T	T*	AT	T	TA	A	A	T	-	A*	A	A	A	A	T	AT	AT	T	T
1918	OCT 25	T	T	T	T	A	TA	A	A	T	A	T*	T	A	T	A	A	A	A	A	A	T	A	TA	T	T	T	AT	T	T	T	T	T	T	T	TA	T	T	T	T	T	*	A	A	A	A	AT	A	AT	TA	A	T	A	-	A	A
1919	NOV 21	A	*	T	T	T	-	A	A	A	A	AT	T	A	T	A	T	A*	TA	TA	A	A	A	A	A	A	T	TA	T	T	T	T	T	T	T	*	T	T	T	T	T	TA	TA	A	A	T	T	-	T	A	TA	A	A	T	T
1920	DEC 18	T	T	AT	A	A	T	A	T	A	TA	A	T	A	*	A	A	A	*	AT	T	T	T	T	T	T	T	*	T	T	T	T	T	T	A	T	AT	T	A	T	T	T	T	AT	TA	T	T	A	A	T	AT	T	T
1921	1974 JAN 14	T	A	A	T	-	T	T	A	A	T	A	A	A	A	A	A	-	A	A	-	AT	-	T	T	T	TA	T*	T	A	T	T	T	T	T	T	A*	AT	T	AT	T	TA	A	T	-	T	T	T	T	T	T	T	TA	A
1922	FEB 10	A	-	A	-	A	*	A	A	A	A	A	A	A	A	TA	T	A	A	A	A	T	*	T	T	T	T	T	T	T	A	T	-	T	T	T	T	T	T	T	T	T	T	T	T	T	T	A	A	A	A
1923	MAR 9	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	T	T	TA	TA	A	AT	A	A	A	A	A	T	A	T	TA	T	A	T	A	T	A	A	A	T	A	T	T	T	T	T	T	TA	T	T	TA	T	TA	TA	-	A	TA
1924	APR 5	A	A	A	A	A	-	TA	A	A	A	A	A	A	A	A	*	A	A	A	A	A	A	A	A	A	A	T	T	TA	TA	TA	T	T	T	T	T	T	T	T	T	T	T	T	T	T	A	TA	A	T	T	A	A	A	-	-	-
1925	MAY 2	-	-	A	A	A	A*	AT	T	A	AT	AT	T	A	T*	TA	A	A	TA	T*	A	A*	AT	AT	T	T	T	T	T	T	T	T	TA	T*	T	T	T	T	T	T	T	TA	-	T	T	TA	T*	T	T	A	-	-	-
1926	MAY 29	T	T	A	A	A	*	-	A	A	A	*	A	A	*	-	TA	*	A	A	A	A	A	T	T	T	T	TA	TA	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	AT	*	-	T
1927	JUN 25	TA	TA	A	A	-	A	-	A	A	T	A	A	A	A	A	A	A	A	-	TA	TA	-	T	T	T	T	T	T	T	T	-	T	T	-	T	T	T	T	T	T	T	T	T	T	A	AT	AT	T	T	T	T	T	T
1928	JUL 22	T	T	A	A	A	A	AT	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-	T	-	T	-	T	-	T	-	T	-	AT	-	AT	-	T	-	TA	-	T	-	T	-	T	-	T	-	T	-
1929	AUG 18	AT	-	A	-	A	-	A	-	A	-	A	-	A	-	AT	-	TA	T	T	T	T	T	T	T	T	T	T	T	TA	AT	T	T	T	AT	T	T	T	TA	A	AT	-	T	T	T	T	T	T	-	A	-
1930	SEP 14	AT	T	T	TA	AT	A*	A	A	A	A	A	A	A	A	TA	A	TA	A	A	A	AT	T	T	TA	A	T	TA	T	T	T	T	T	T	T	-	T	T	T	AT	T	T	T	T	T	T	TA	T	T	A	A	T	T	T
1931	OCT 11	T	T	TA	T	A	A	A	A	A	A	A	A	A	A	A	A	AT	A	A	TA	A	A	A	T	T	AT	-	T	T	AT	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	TA	T	T	T
1932	NOV 7	TA	-	T	-	A	-	A	-	A	A	A	A	A	A	A	A	-	A	-	AT	-	TA	A	T	T	T	T	T	T	A	T	*	T	A	T	T*	T	AT	T	T	T	T	T	T	T	T	TA	T	A	T	T	T
1933	DEC 4	T	T	TA	T	T	A	TA	A	A	T	A	T	A	*	AT	T*	A	T	A	*	A	T	A	A	A	A	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1934	DEC 31	T	A	T	T	T	T	A	TA	A	T	A	T	A	A	-	A	-	TA	T	A	A	AT	-	A	A*	A	*	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T

SGD 375 Part I (Prompt)

SEPTEMBER 1975 DATA

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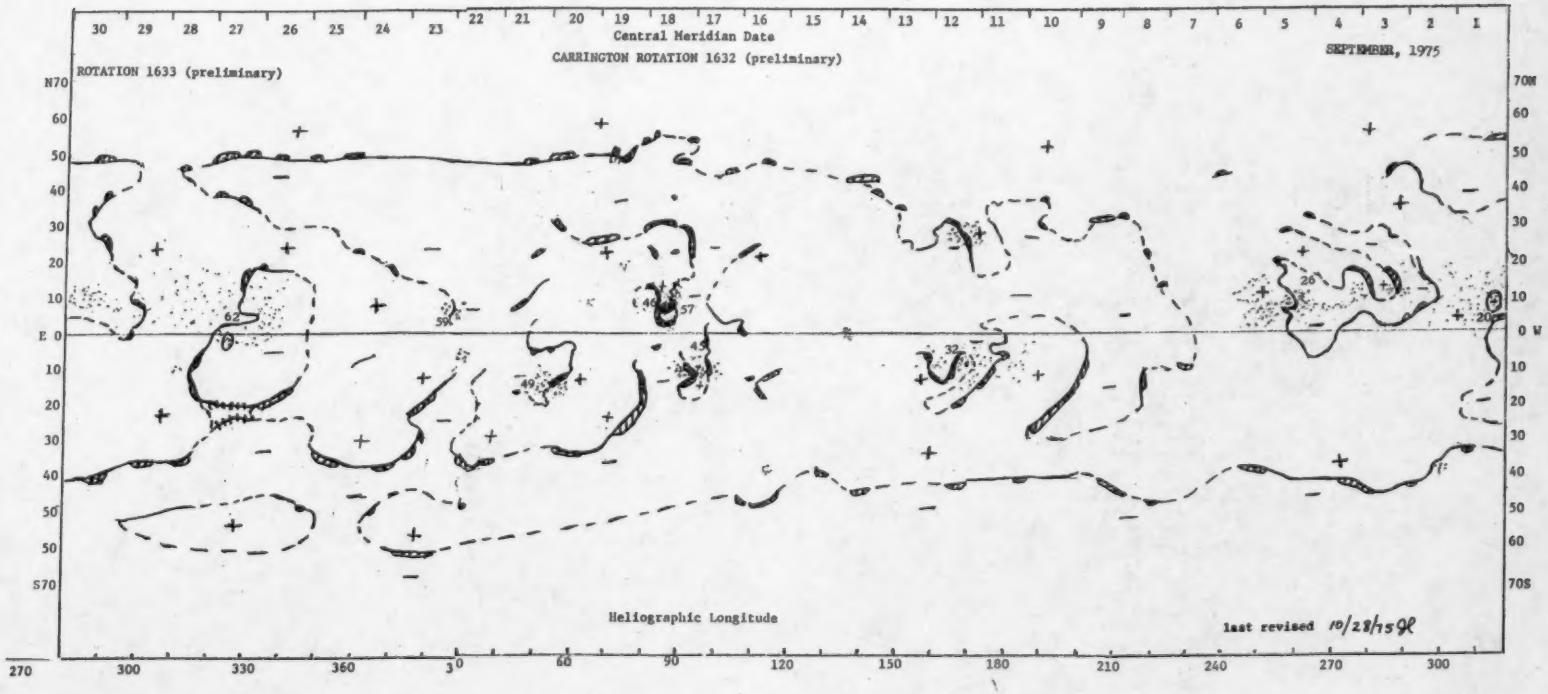
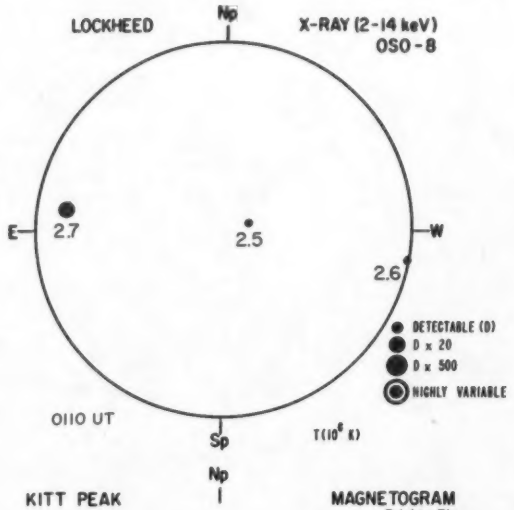
Hα SYNOPTIC CHART

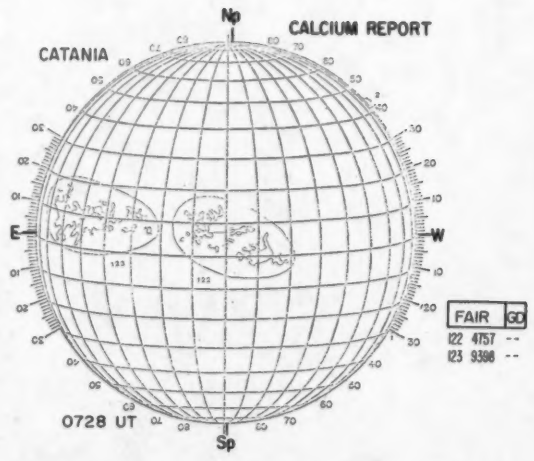
SEPTEMBER 1975

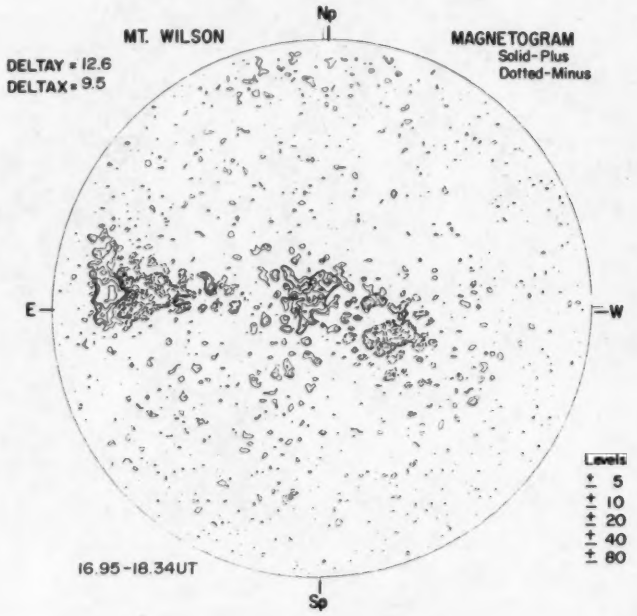


23 Sep 75

SEPTEMBER 1, 1975 (P = 20.95, B_0 = 7.19, L_0 = 317.49)

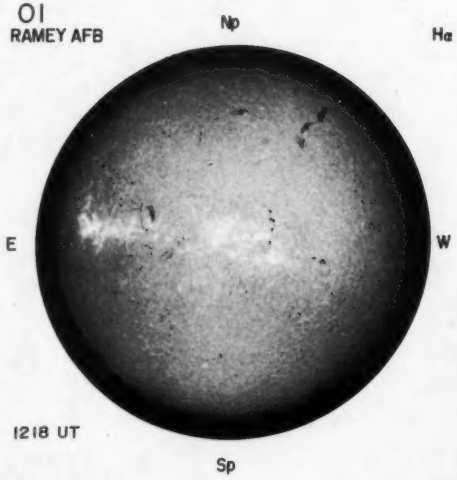


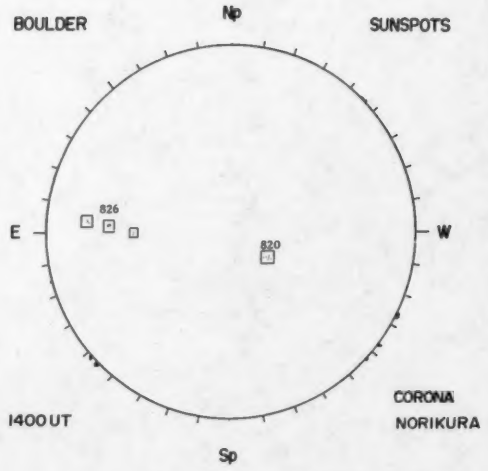


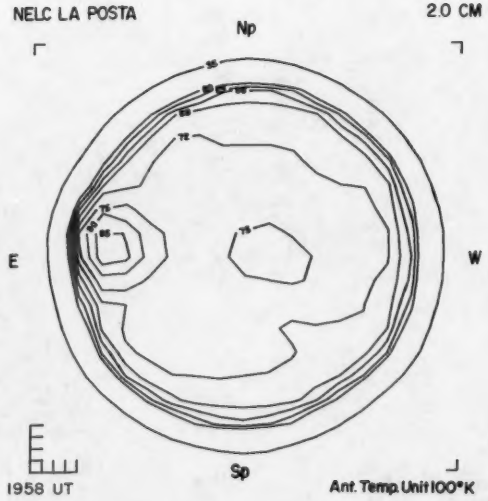


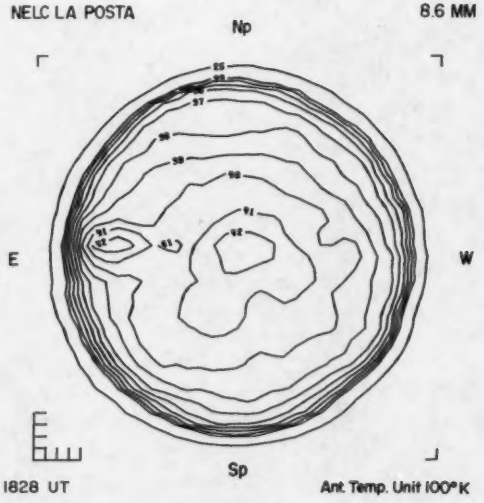
E— NO DATA SEPT. 1-22; 25-30 —W

Sp


01
RAMEY AFB
Np
Hα
E
W
1218 UT
Sp

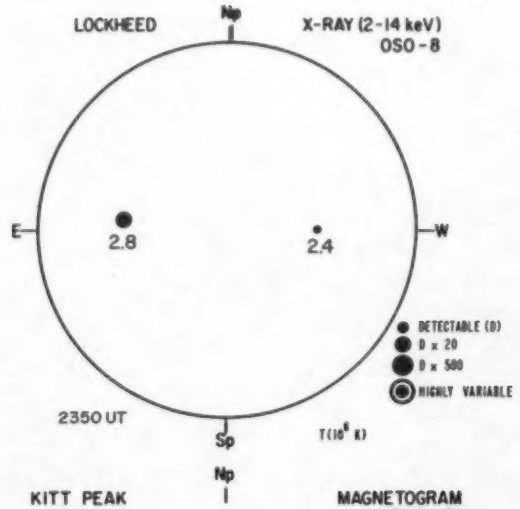

BOULDER
Np
SUNSPOTS
826
820
E
W
CORONA
NORIKURA
1400 UT
Sp

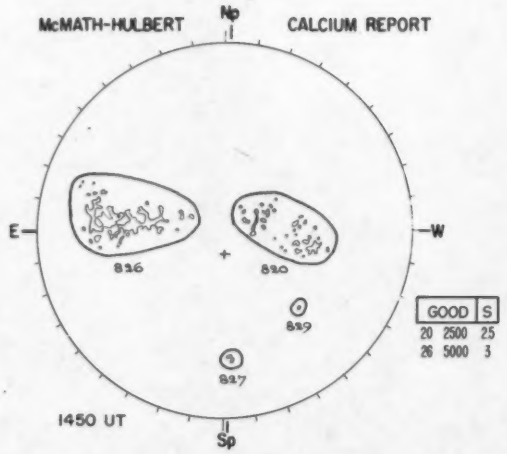

NELC LA POSTA
2.0 CM
Np
E
W
1958 UT
Sp
Ant. Temp. Unit 100°K


NELC LA POSTA
8.6 MM
Np
E
W
1828 UT
Sp
Ant. Temp. Unit 100°K

25
Sep 75

SEPTEMBER 2, 1975 (P = 21.20, B_0 = 7.20, L_0 = 304.28)



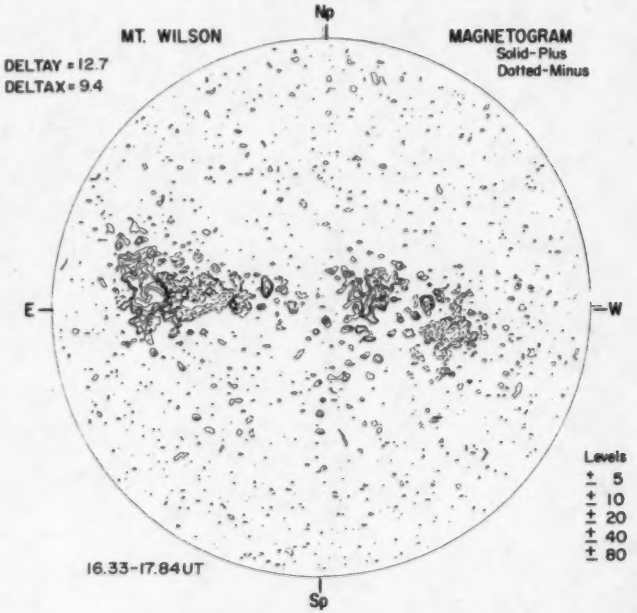


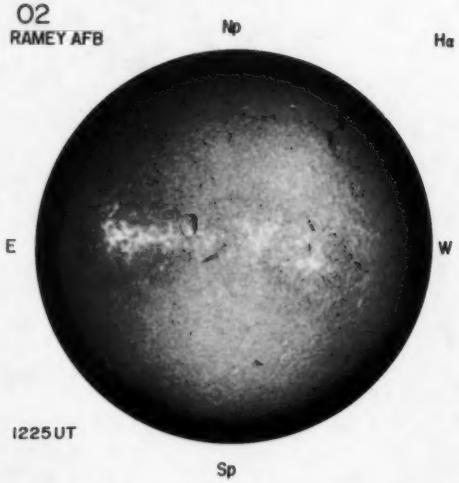
KITT PEAK

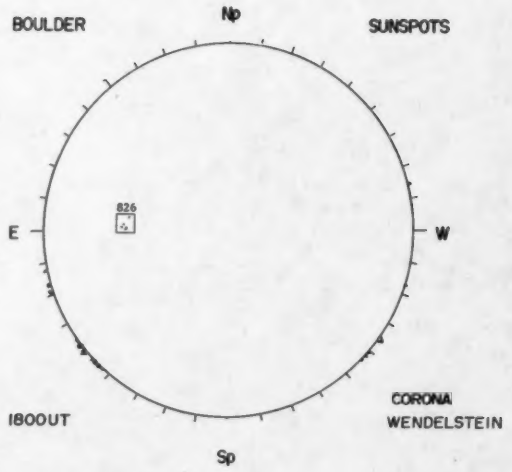
MAGNETOGRAM
Bright - Plus
Dark - Minus

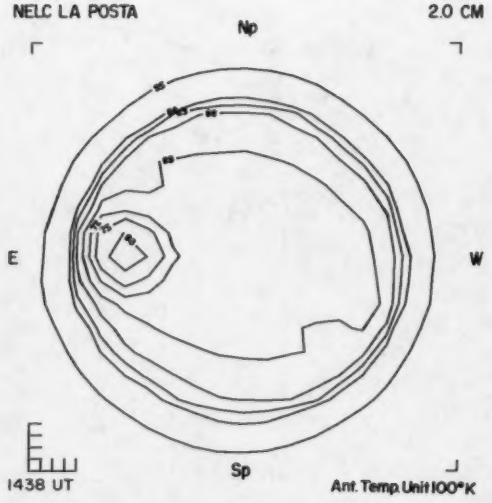
E— —W

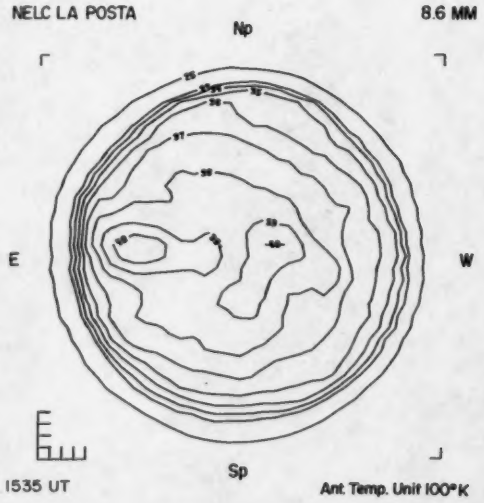
Sp



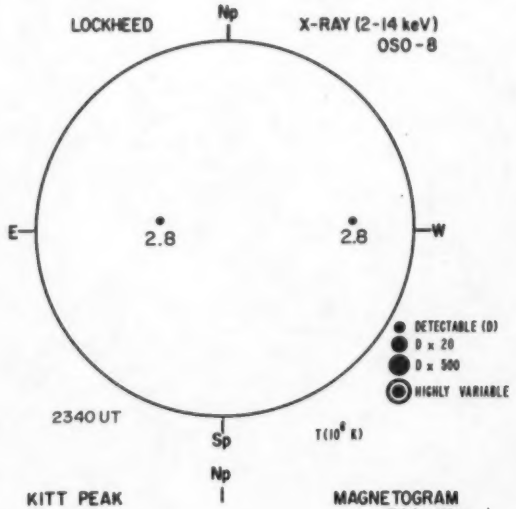

02
RAMEY AFB
Np
Hα
E
W
1225UT
Sp

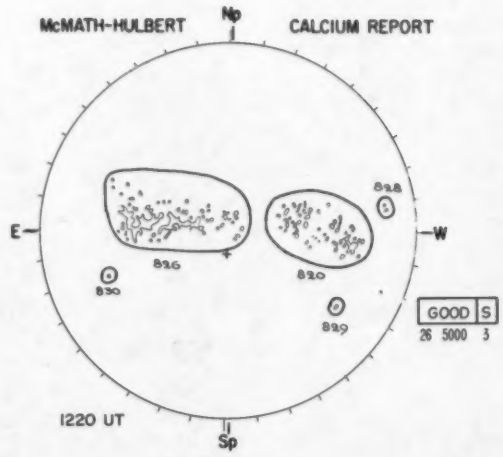

BOULDER
Np
SUNSPOTS
826
E
W
1800UT
CORONA
WENDELSTEIN
Sp

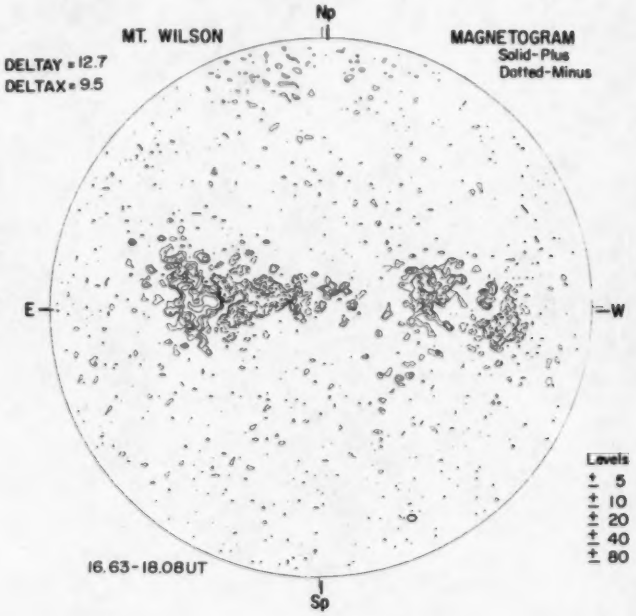

NELC LA POSTA
2.0 CM
Np
E
W
1438 UT
Sp
Ant. Temp. Unit 100°K


NELC LA POSTA
8.6 MM
Np
E
W
1535 UT
Sp
Ant. Temp. Unit 100°K

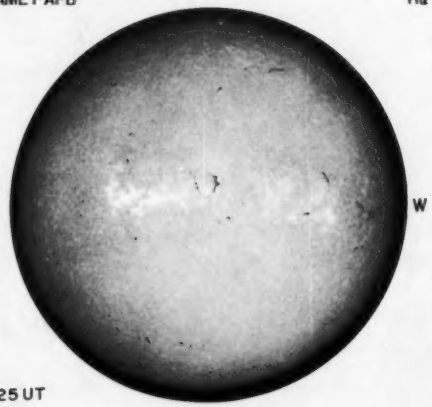
SEPTEMBER 3, 1975 (P = 21.45, B_o = 7.22, L_o = 291.08)





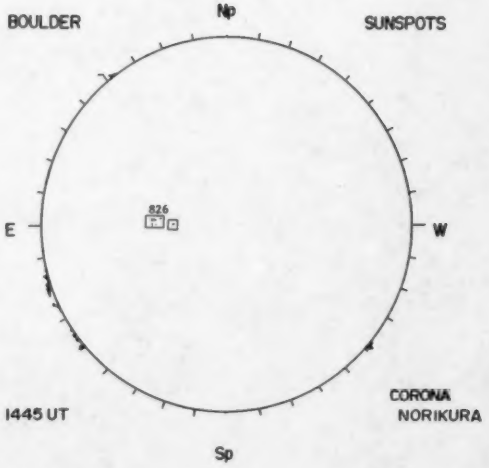


03
RAMEY AFB



1325 UT

BOULDER



1445 UT

CORONA
NORIKURA

NELC LA POSTA

Np

2.0 CM

NO DATA

E

EQUIPMENT

W

---- UT

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

NO DATA

E

CLOUDY

W

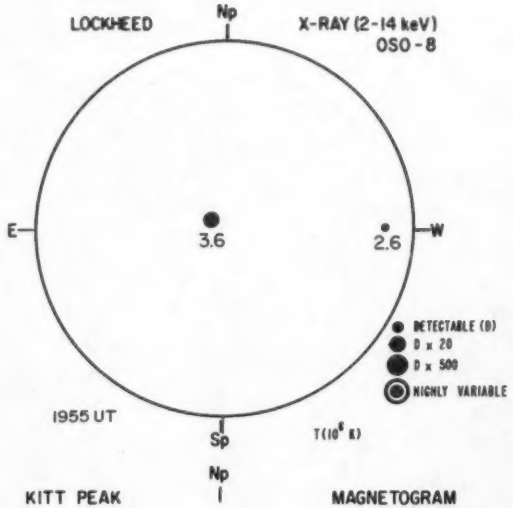
1738 UT

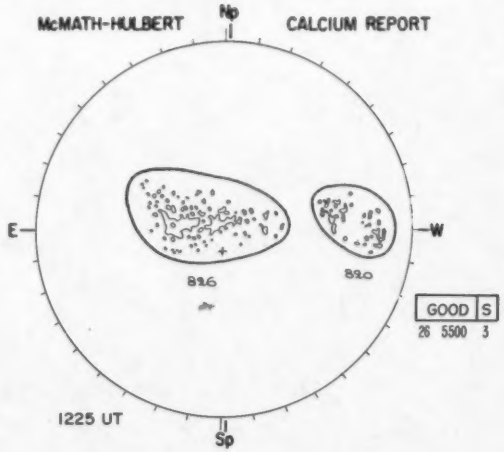
Sp

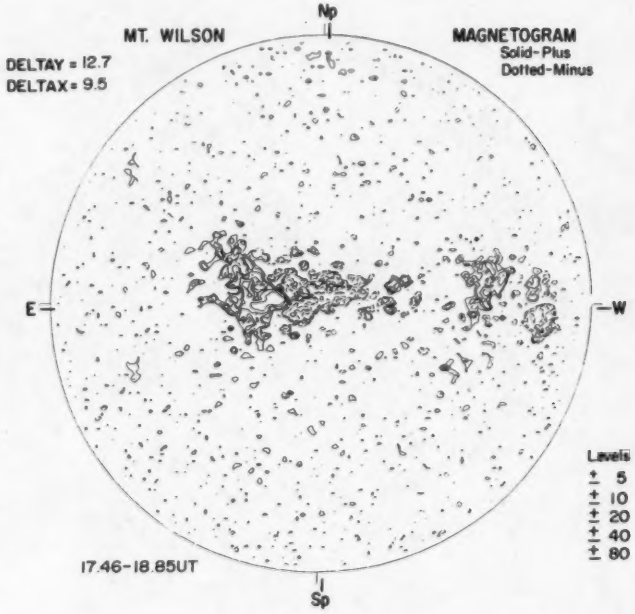
Ant. Temp. Unit 100°K

29
Sep 75

SEPTEMBER 4, 1975 (P=21.69, B_o=7.23, L_o=277.87)

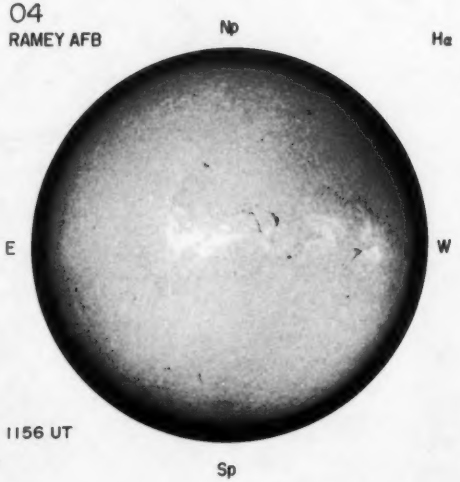




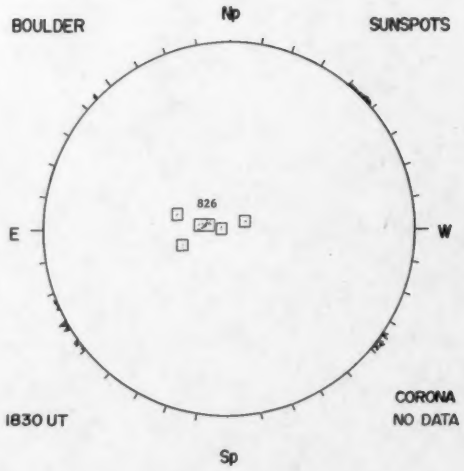


04

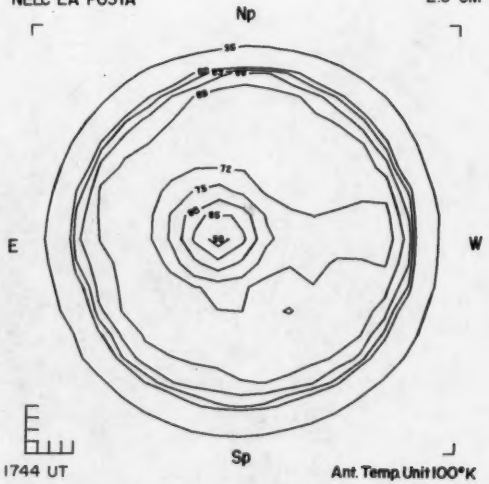
RAMEY AFB



BOULDER



NELC LA POSTA



NELC LA POSTA

31
Sep 75

SEPTEMBER 5, 1975 (P = 21.93, B_0 = 7.24, L_0 = 264.66)

LOCKHEED

Np

X-RAY (2-14 keV)
OSO-8

E

W

3.8

2.9

2.8

DETECTABLE (D)
D x 20
D x 500
HIGHLY VARIABLE

2300UT

Sp

T(10^6 K)

Np

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

E—

—W

Sp

Np

CALCIUM REPORT

CATANIA

E

W

	FAIR	EC
122	5511	--
123	2191	--
124	3875	--

0710 UT

Sp

Np

MT. WILSON

MAGNETOGRAM
Solid-Plus
Dotted-Minus

DELTAY = 12.7
DELTAX = 9.5

E—

—W

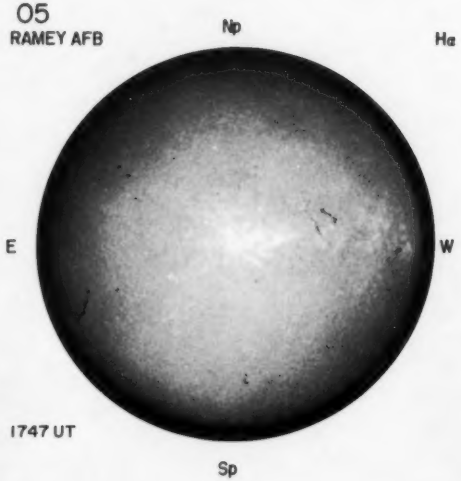
Levels
± 5
± 10
± 20
± 40
± 80

16.23-17.77UT

Sp

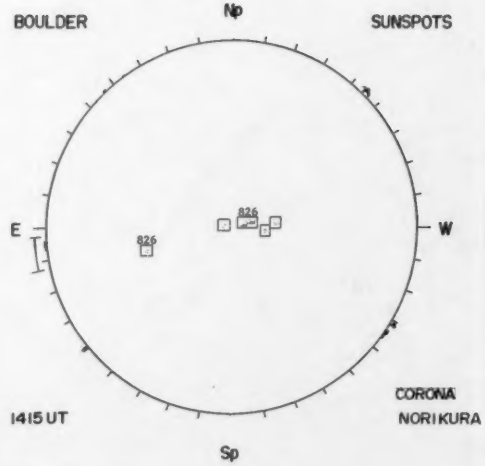
05

RAMEY AFB



1747 UT

BOULDER

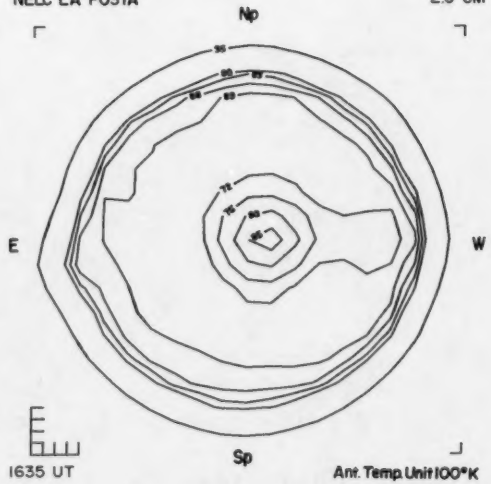


1415 UT

CORONA
NORIKURA

NELC LA POSTA

2.0 CM

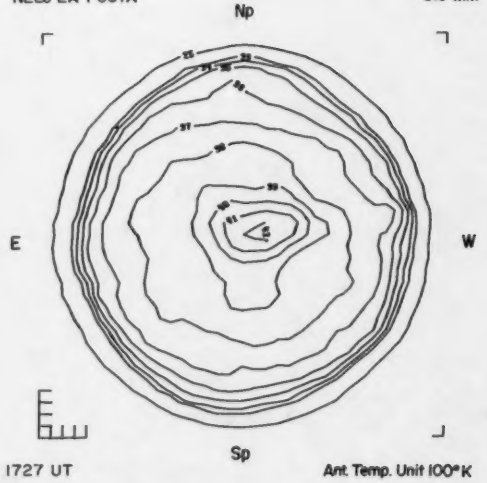


1635 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM



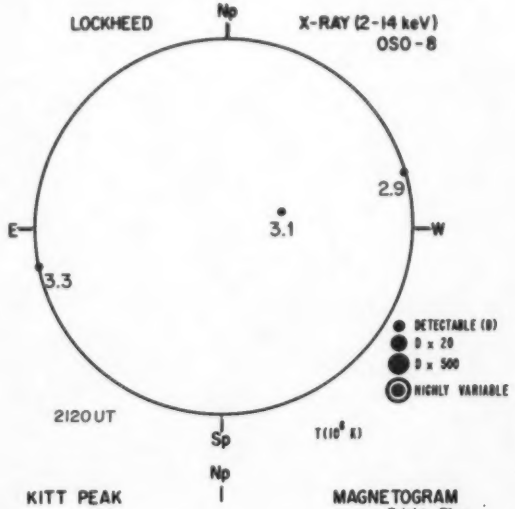
1727 UT

Ant. Temp. Unit 100°K

SEPTEMBER 6, 1975 (P=22.16, B_0=7.24, L_0=251.45)

LOCKHEED

X-RAY (2-14 keV)
OSO-8

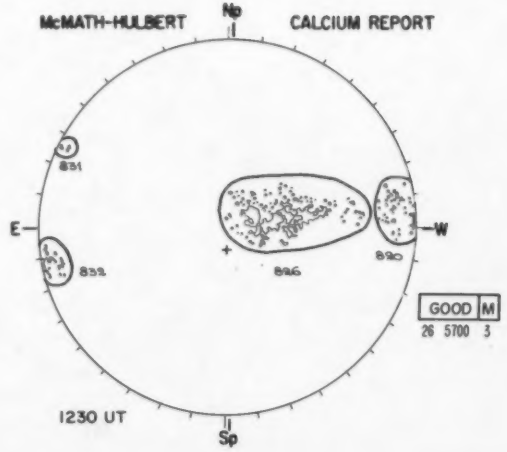


KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

McMATH-HULBERT

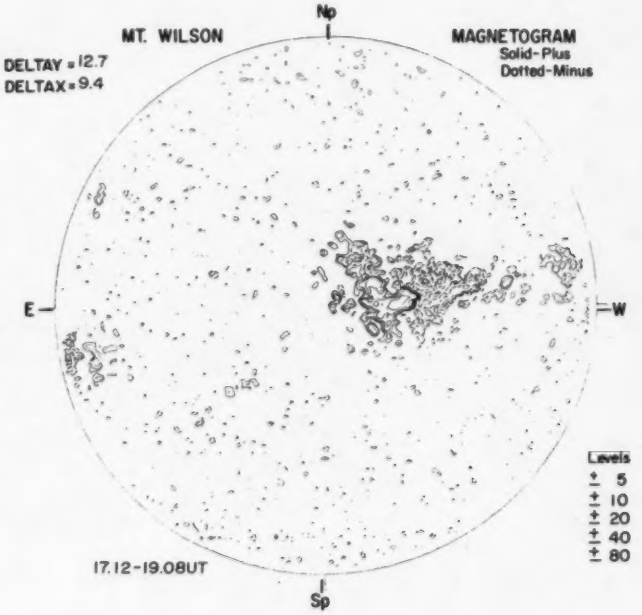
CALCIUM REPORT



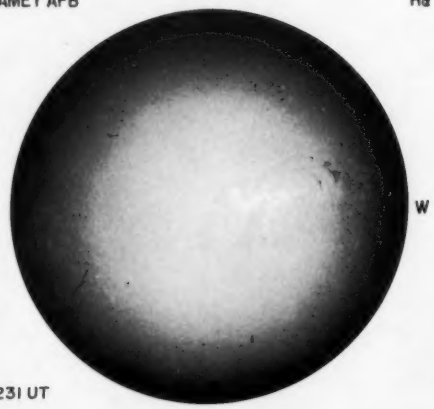
MT. WILSON

MAGNETOGRAM
Solid - Plus
Dotted - Minus

DELTAY = 12.7
DELTAX = 9.4

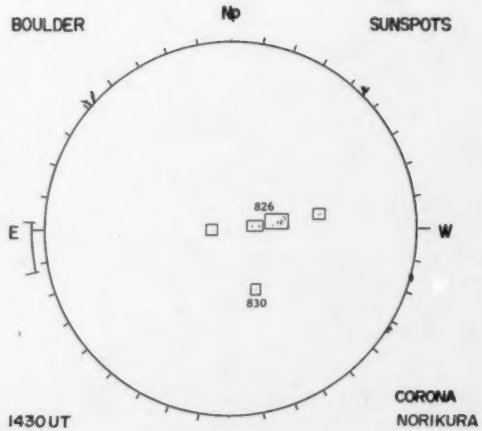


06
RAMEY AFB



1231 UT

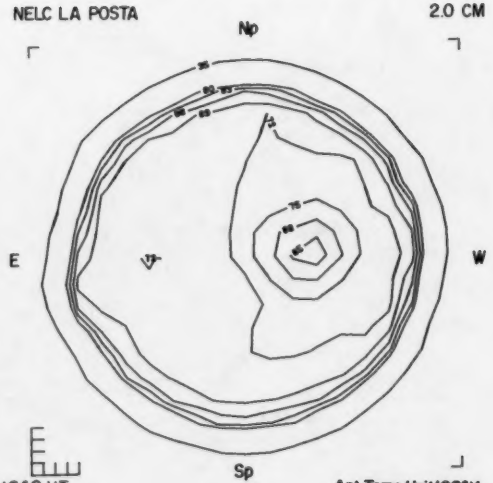
BOULDER



CORONA
NORIKURA

1430 UT

NELC LA POSTA



1640 UT

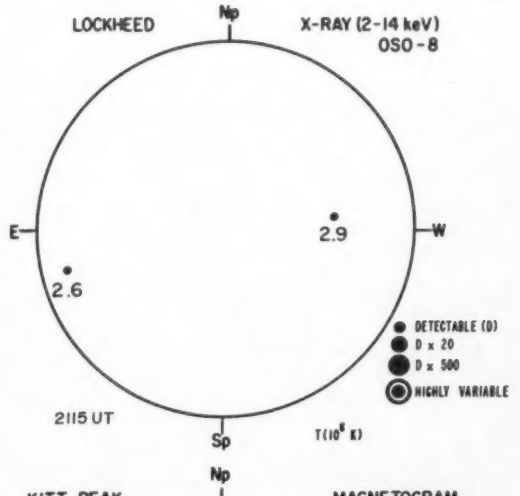
Ant. Temp. Unit 100°K

NELC LA POSTA

1739 UT

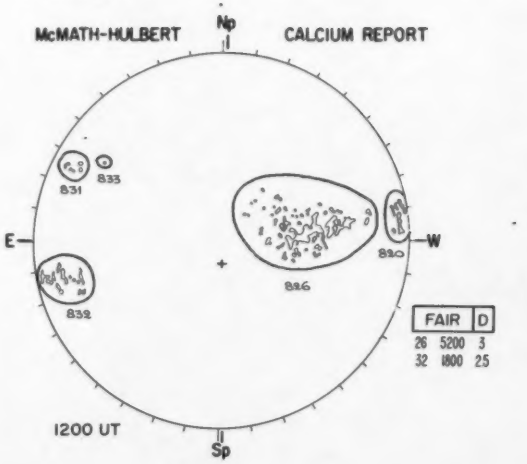
Ant. Temp. Unit 100°K

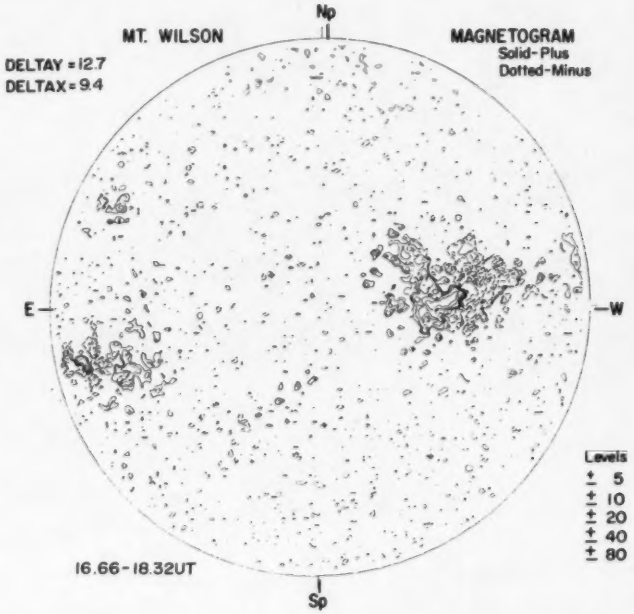
SEPTEMBER 7, 1975 (P = 22.39, B_0 = 7.25, L_0 = 238.25)



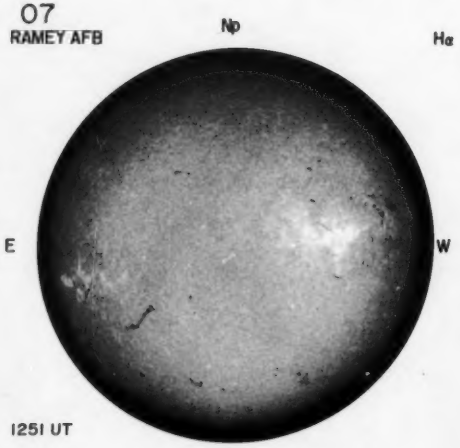
KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus



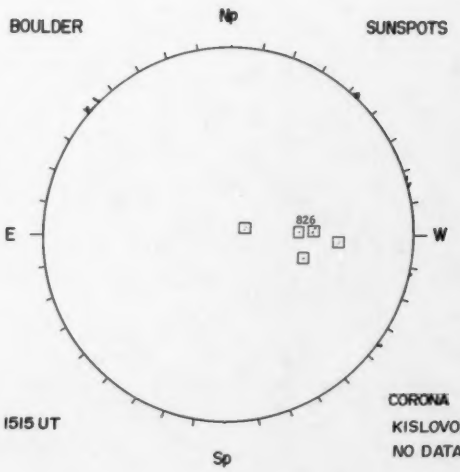


07
RAMEY AFB



1251 UT

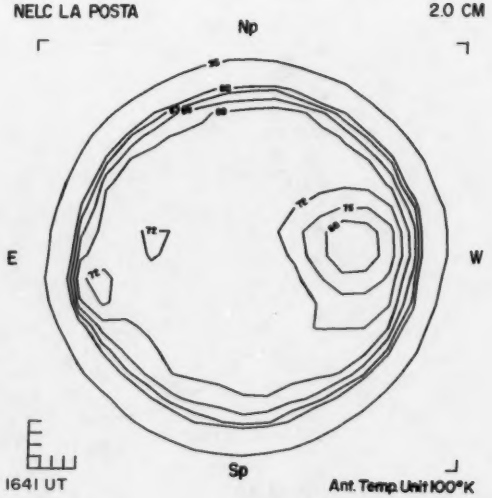
BOULDER



1515 UT

CORONA
KISLOVODSK
NO DATA 295°-300°,
310°-355°

NELC LA POSTA



1641 UT

Ant. Temp. Unit 100°K

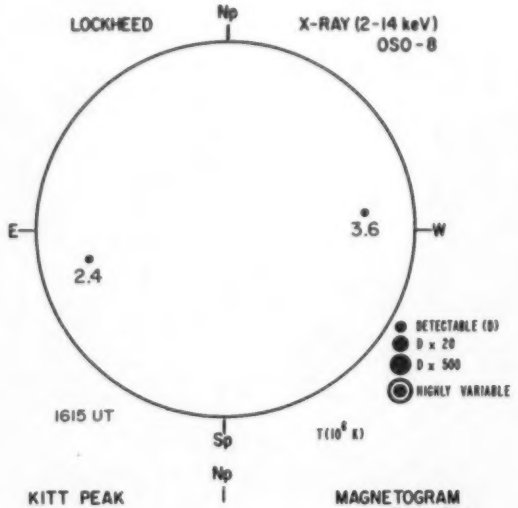
NELC LA POSTA

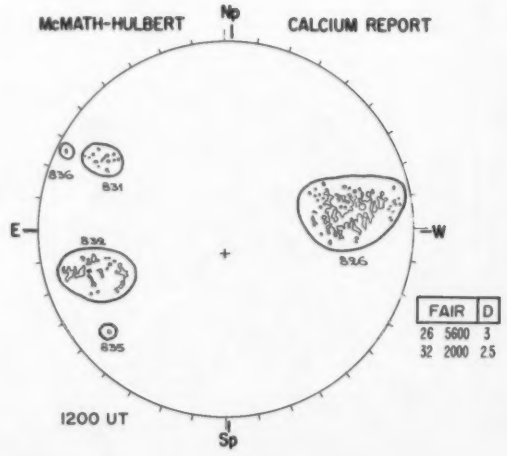
---- UT

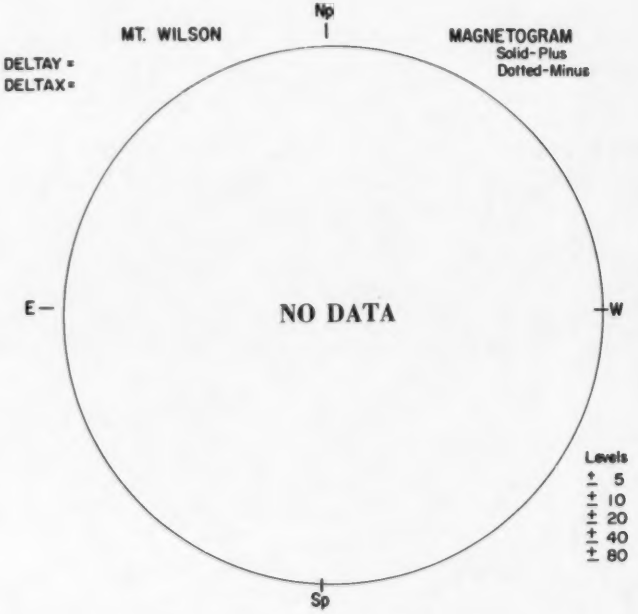
Ant. Temp. Unit 100°K

37
Sep 75

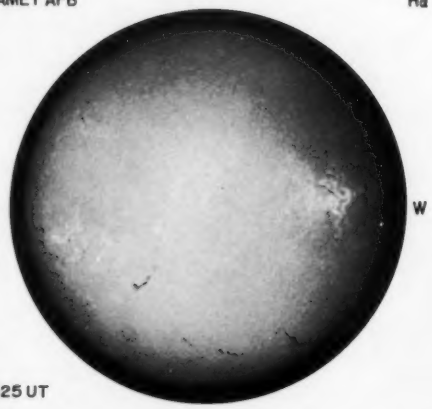
SEPTEMBER 8, 1975 (P=22.61, B_0=7.25, L_0=225.04)





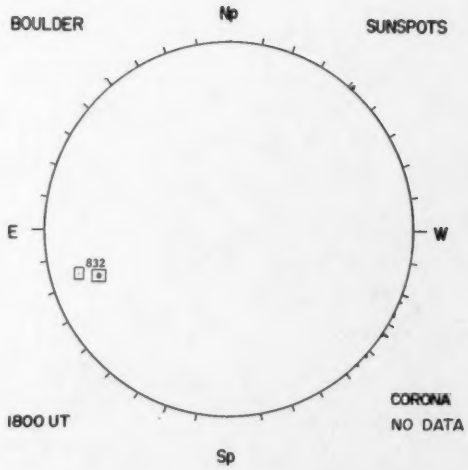


08
RAMEY AFB



1325 UT

BOULDER



1800 UT

CORONA
NO DATA

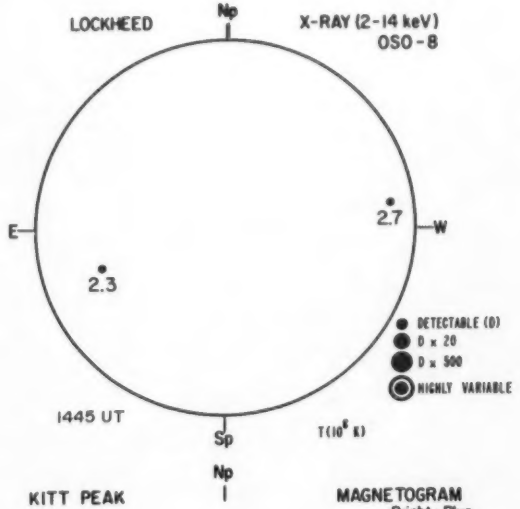
NELC LA POSTA

---- UT

NELC LA POSTA

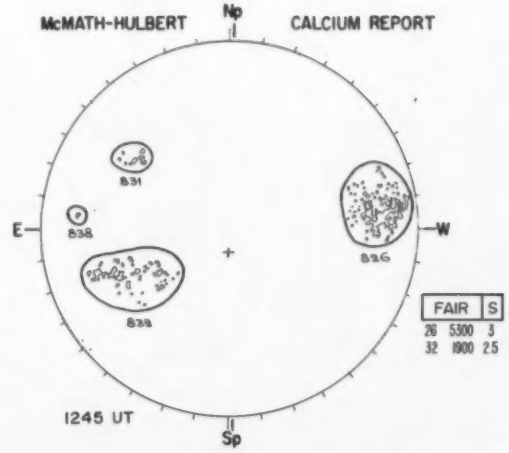
---- UT

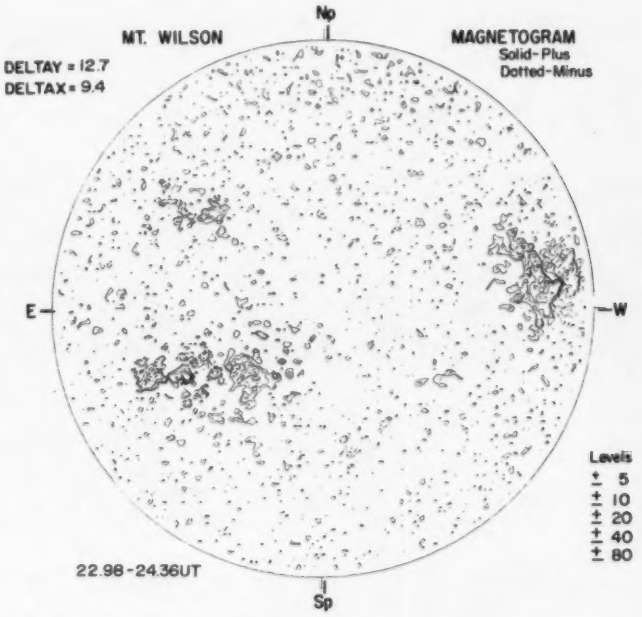
SEPTEMBER 9, 1975 (P=22.83, B_0=7.25, L_0=211.84)



KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus



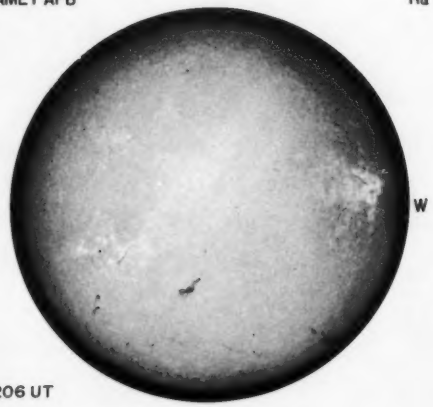


09

RAMEY AFB

Np

Hα



E

W

1206 UT

Sp

BOULDER

Np

SUNSPOTS

E

W

832

1630 UT

CORONA
NORIKURA

Sp

NELC LA POSTA

Np

2.0 CM

NO DATA

E

EQUIPMENT

W

---- UT

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

NO DATA

E

EQUIPMENT

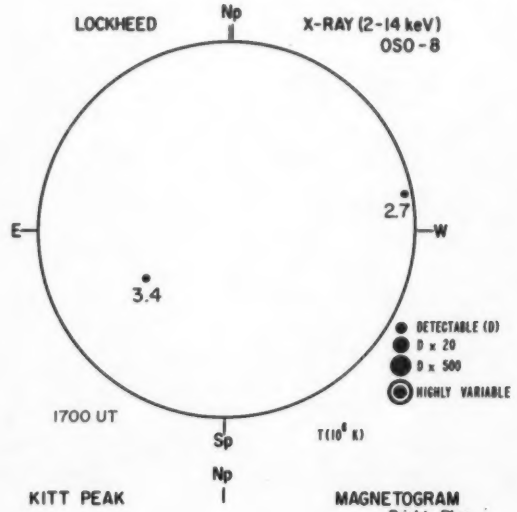
W

---- UT

Sp

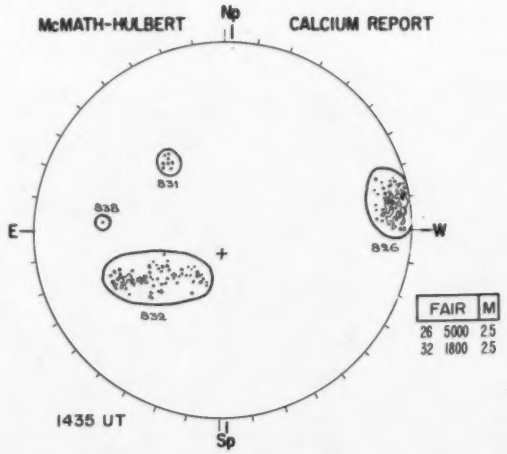
Ant. Temp. Unit 100°K

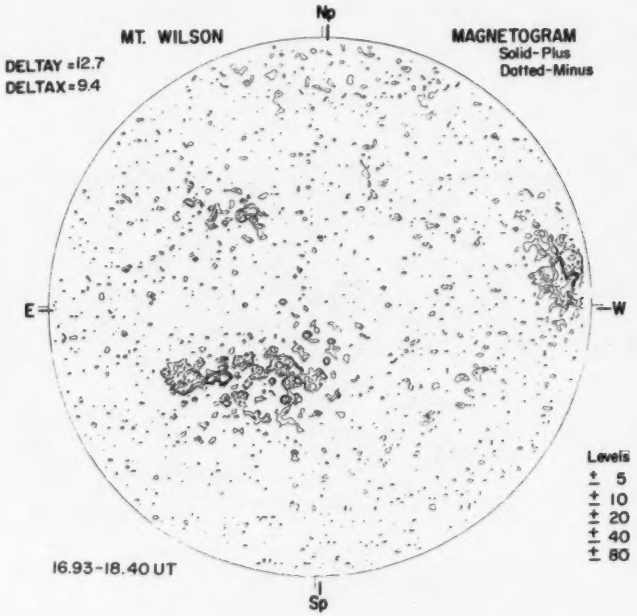
SEPTEMBER 10, 1975 (P =23.04, B_o =7.25, L_o =198.63)



KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus





E— —W

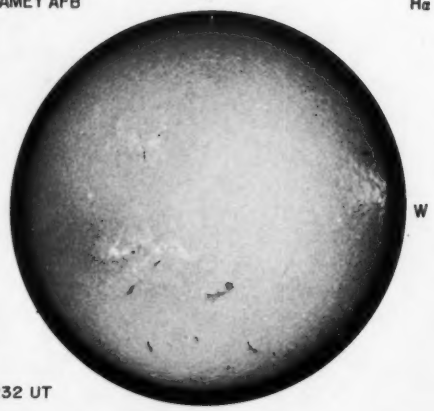
Sp

10

RAMEY AFB

Np

Hα



E

W

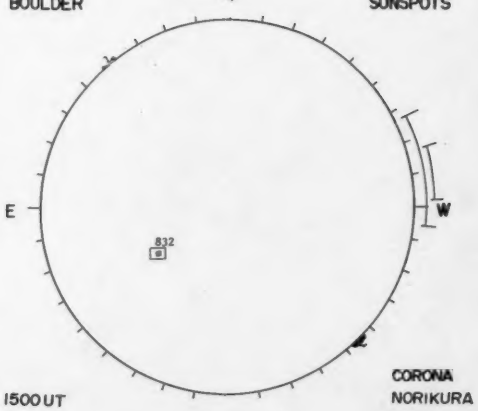
1232 UT

Sp

BOULDER

Np

SUNSPOTS



E

W

1500 UT

CORONA
NORIKURA

Sp

NELC LA POSTA

Np

2.0 CM

NO DATA

E

EQUIPMENT

W

---- UT

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

NO DATA

E

EQUIPMENT

W

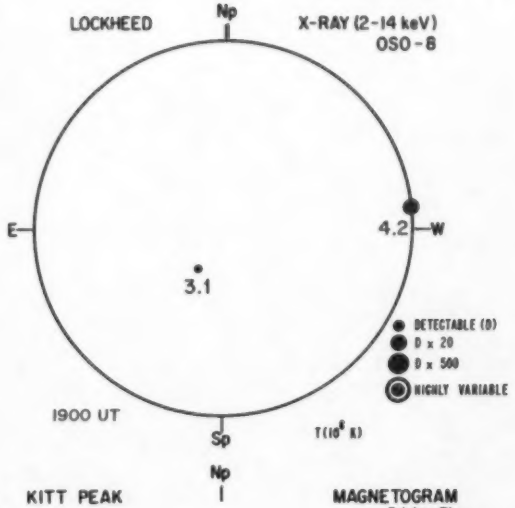
---- UT

Sp

Ant. Temp. Unit 100°K

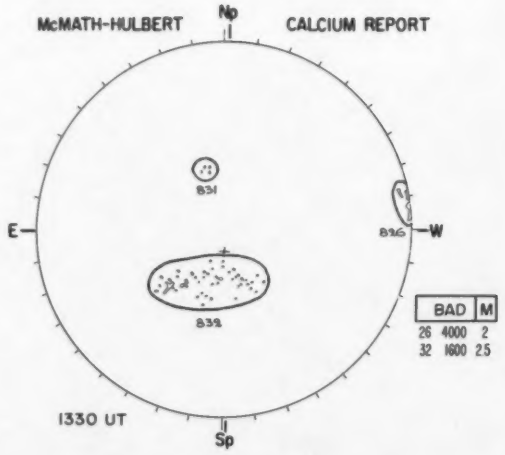
SEPTEMBER 11, 1975 (P=23.24, B_o=7.24, L_o=185.43)

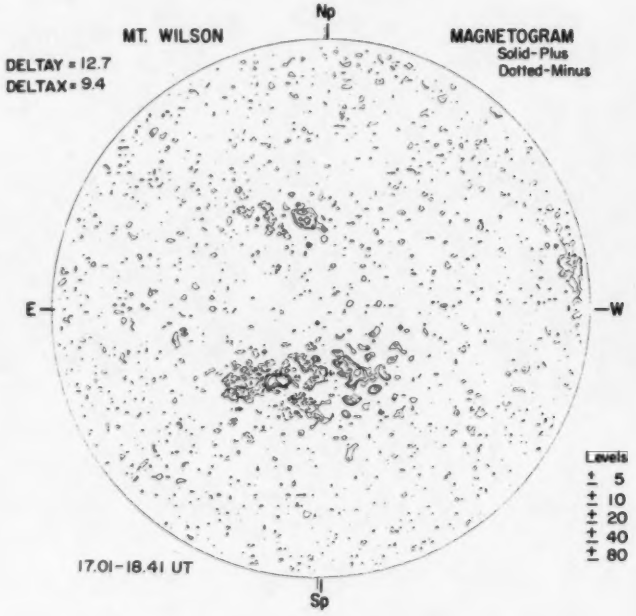
LOCKHEED — X-RAY (2-14 keV) OSO-8

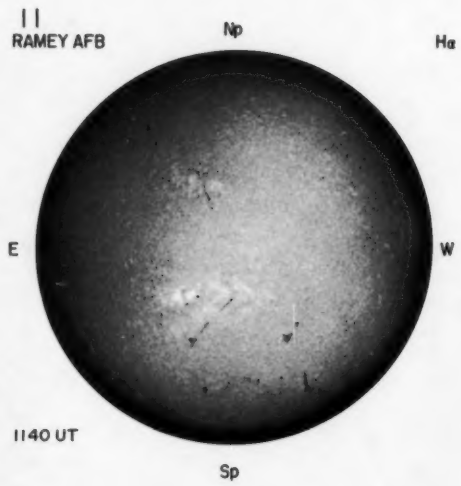


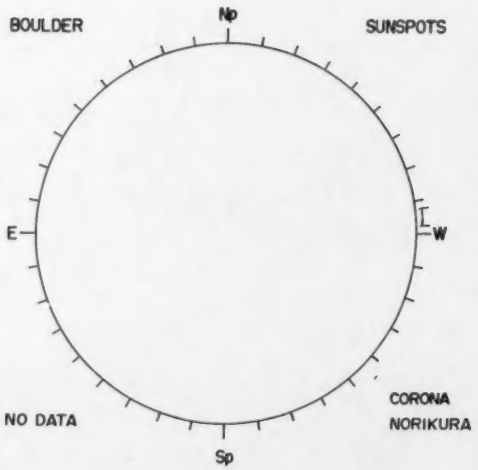
KITT PEAK — MAGNETOGRAM
Bright - Plus
Dark - Minus

McMATH-HULBERT — CALCIUM REPORT









NELC LA POSTA
Np
2.0 CM

NO DATA

E
EQUIPMENT
W

---- UT
Sp
Ant. Temp. Unit 100°K

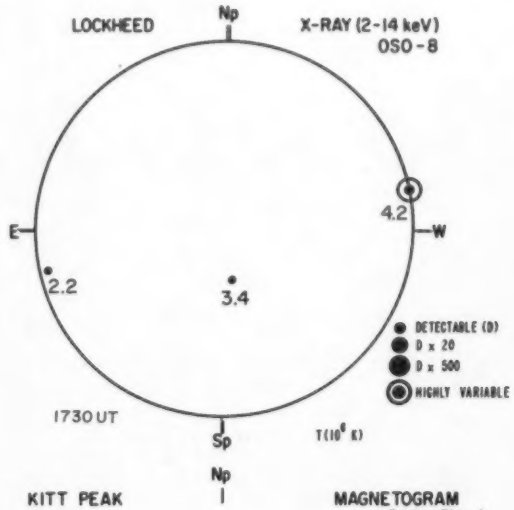
NELC LA POSTA
Np
8.6 MM

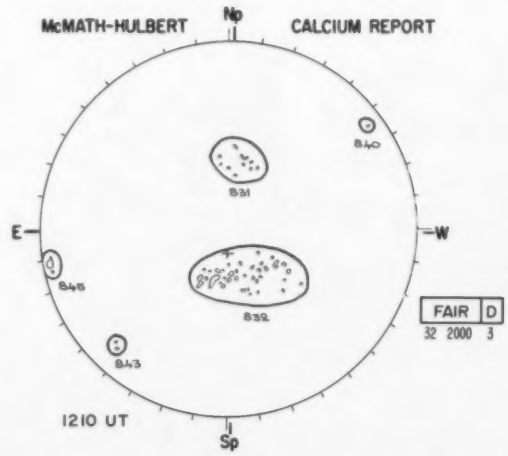
NO DATA

E
EQUIPMENT
W

---- UT
Sp
Ant. Temp. Unit 100°K

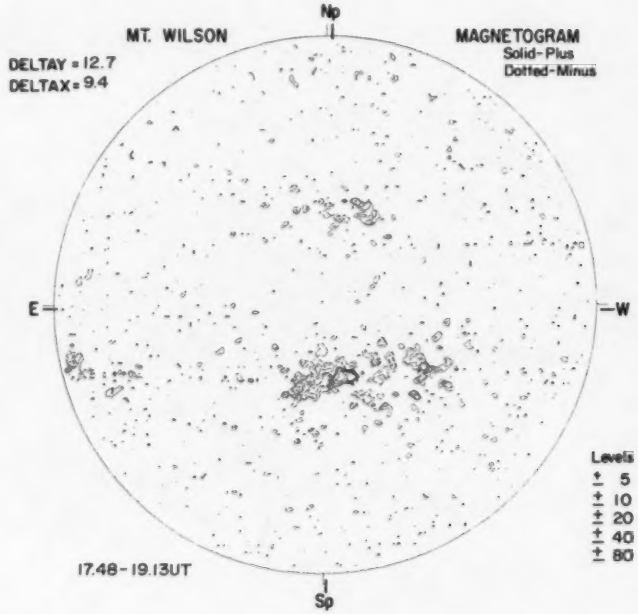
SEPTEMBER 12, 1975 (P =23.44, B_o =7.24, L_o =172.22)



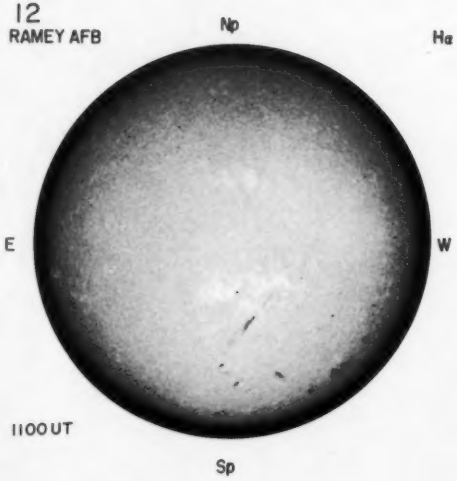


KITT PEAK

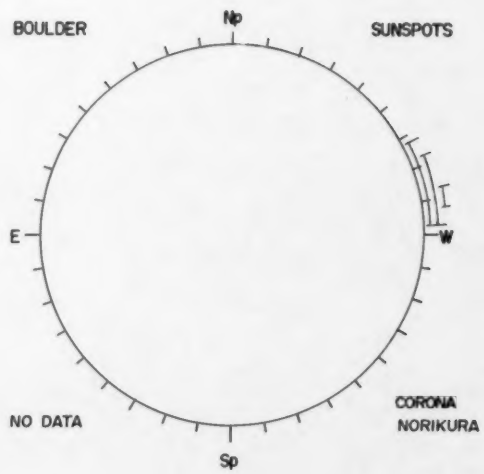
MAGNETOGRAM
Bright - Plus
Dark - Minus



12
RAMEY AFB

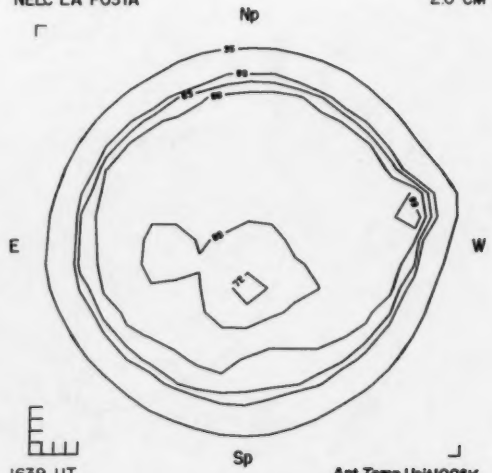


BOULDER



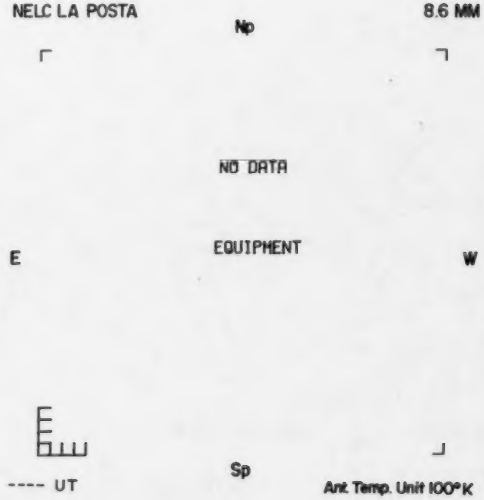
NELC LA POSTA

2.0 CM

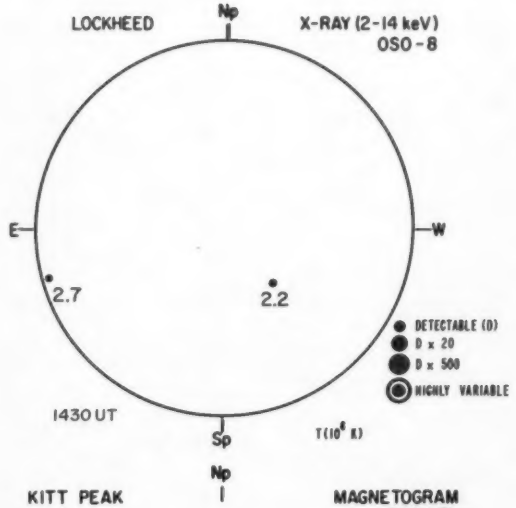


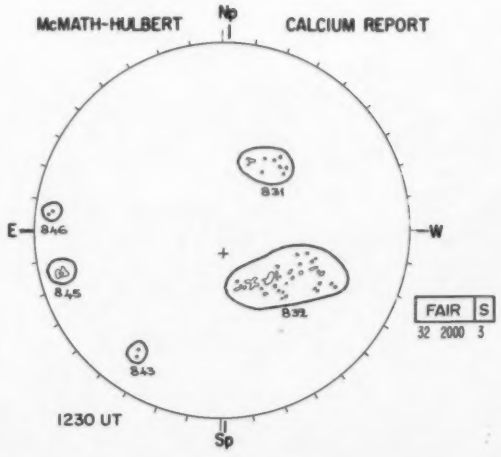
NELC LA POSTA

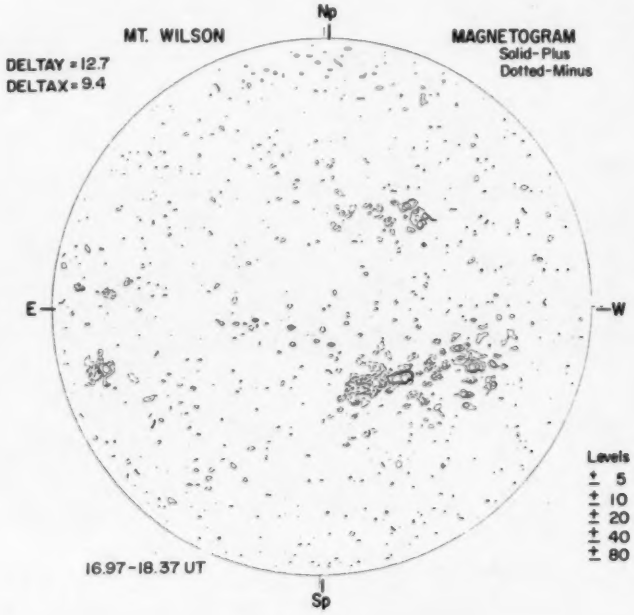
8.6 MM



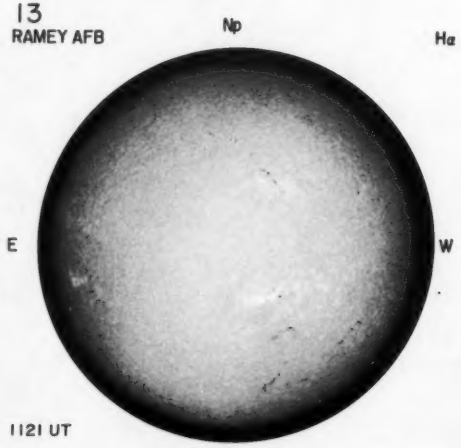
SEPTEMBER 13, 1975 (P=23.63, B_o=7.23, L_o=159.02)





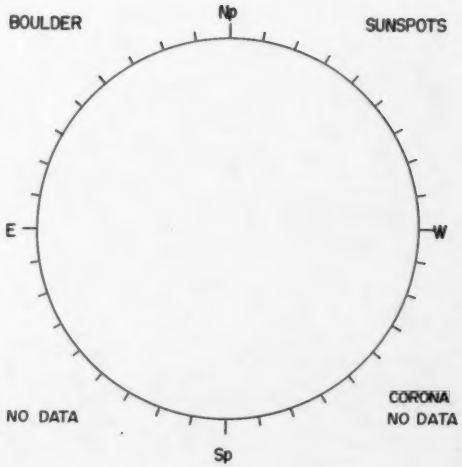


13
RAMEY AFB



1121 UT

BOULDER



NO DATA

CORONA
NO DATA

NELC LA POSTA

NO DATA

E EQUIPMENT W

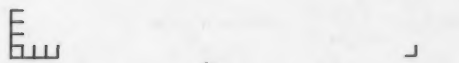
---- UT

Ant. Temp. Unit 100°K

NELC LA POSTA

NO DATA

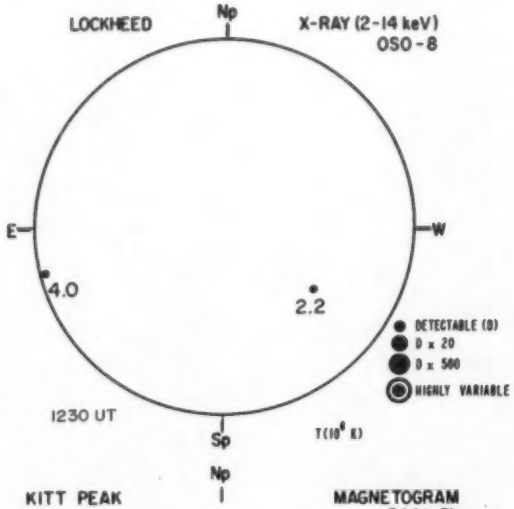
E EQUIPMENT W

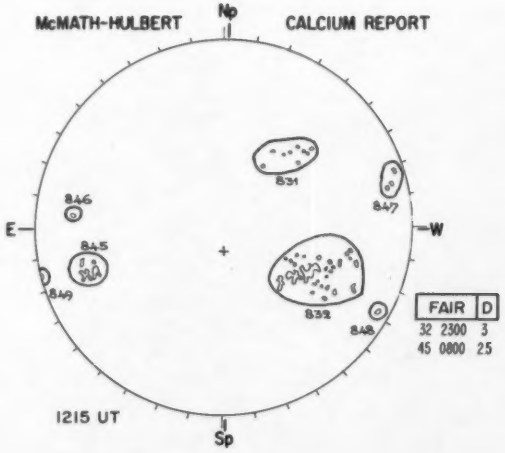


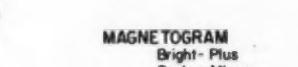
---- UT

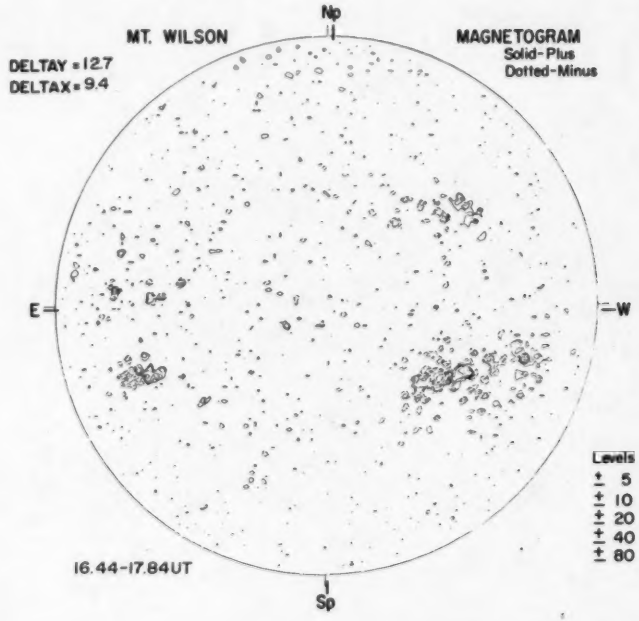
Ant. Temp. Unit 100°K

SEPTEMBER 14, 1975 (P=23.81, B_0=7.22, L_0=145.82)









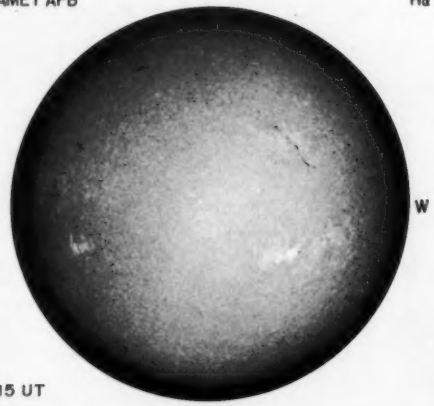
14
RAMEY AFB

Np

Hα

E

W



1115 UT

Sp

BOULDER

Np

SUNSPOTS

E

W

832

1400 UT

CORONA
NORIKURA

Sp

NELC LA POSTA

Np

2.0 CM

SEPT. 14-30
NO DATA

E

EQUIPMENT

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

SEPT 14-30
NO DATA

E

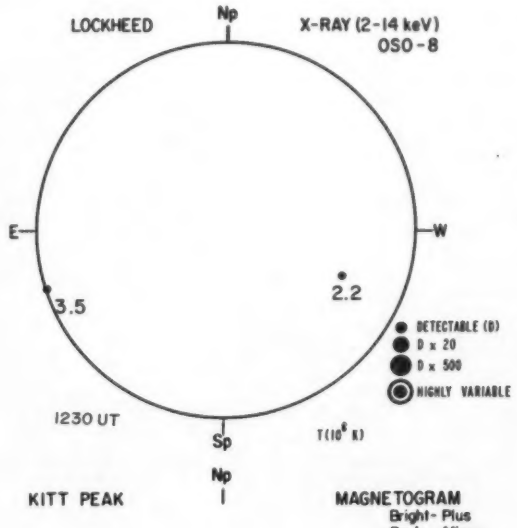
EQUIPMENT

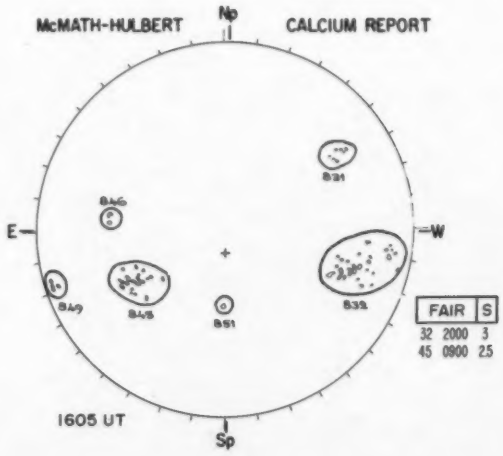
W

Sp

Ant. Temp. Unit 100°K

SEPTEMBER 15, 1975 (P=23.99, B_0=7.21, L_0=132.61)





KITT PEAK

Np

MAGNETOGRAM
Bright - Plus
Dark - Minus

E— —W

Sp

MT. WILSON

Np

MAGNETOGRAM
Solid - Plus
Dotted - Minus

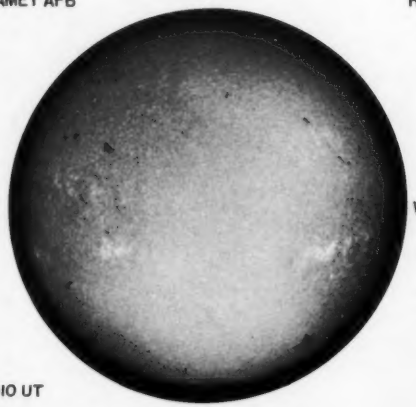
DELTAY =
DELTAX =

E— NO DATA —W

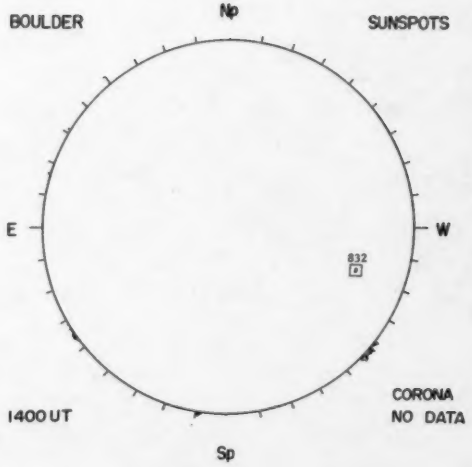
Sp

Levels
± 5
± 10
± 20
± 40
± 80

15
RAMEY AFB



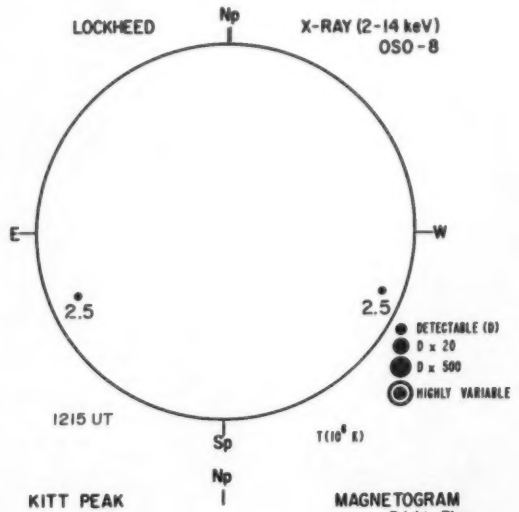
BOULDER

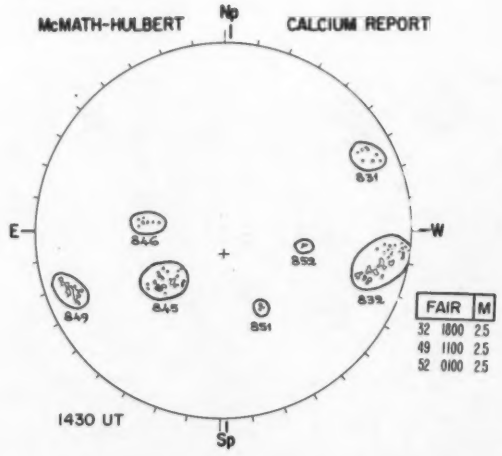


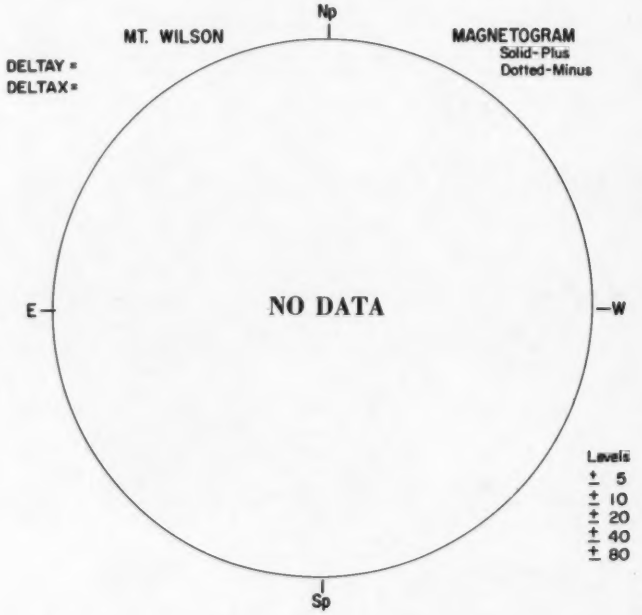
NELC LA POSTA 2.0 CM

NELC LA POSTA 8.6 MM

SEPTEMBER 16, 1975 (P=24.16, B_o=7.19, L_o=119.41)





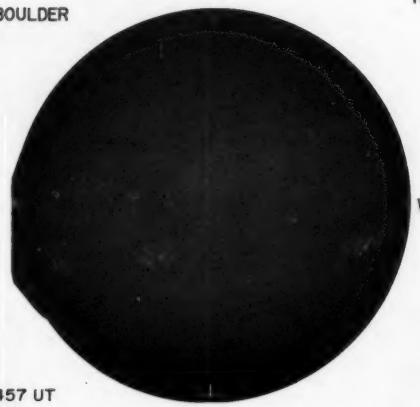


16

BOULDER

Np

Hα



E

W

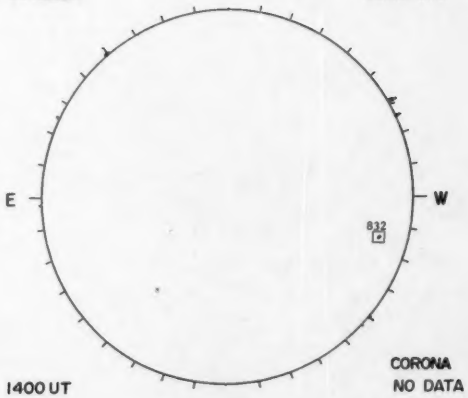
1457 UT

Sp

BOULDER

Np

SUNSPOTS



E

W

1400 UT

Sp

CORONA
NO DATA

NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

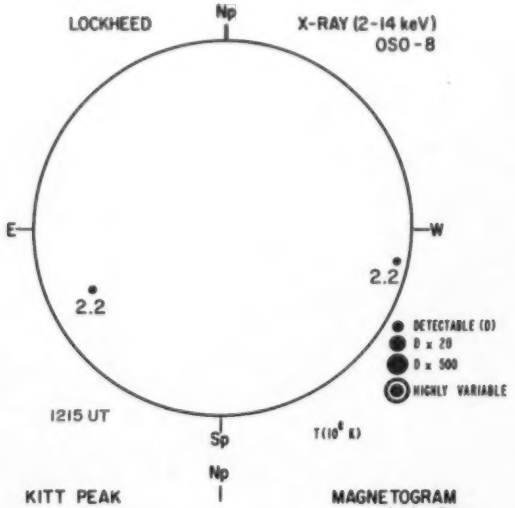
W

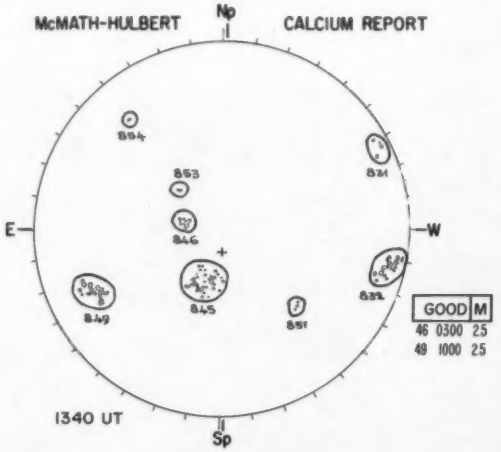
Sp

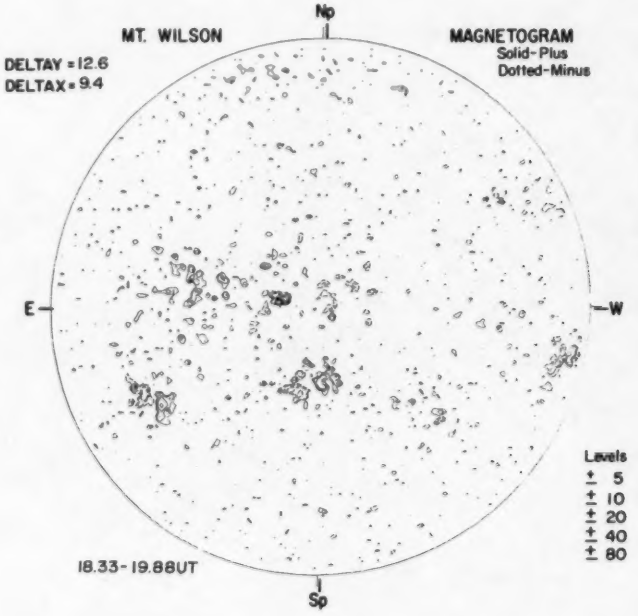
Ant. Temp. Unit 100°K

55
Sep 75

SEPTEMBER 17, 1975 (P = 24.33, B_o = 7.18, L_o = 106.21)

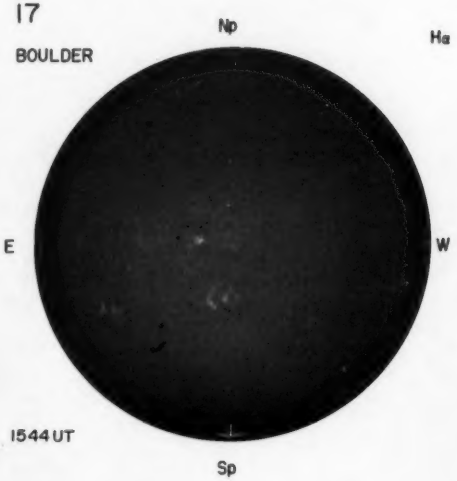




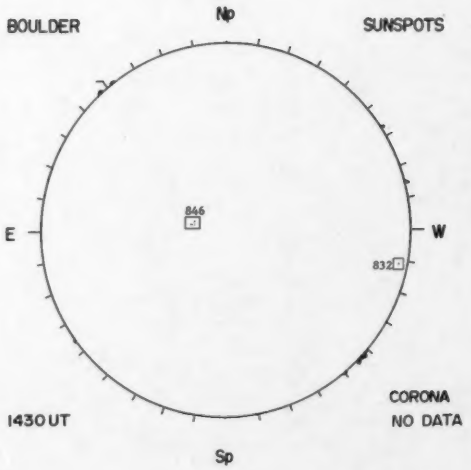


17

BOULDER



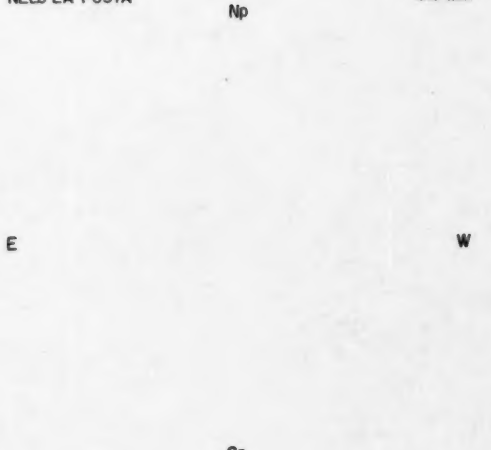
BOULDER



NELC LA POSTA

Ant. Temp. Unit 100°K

NELC LA POSTA

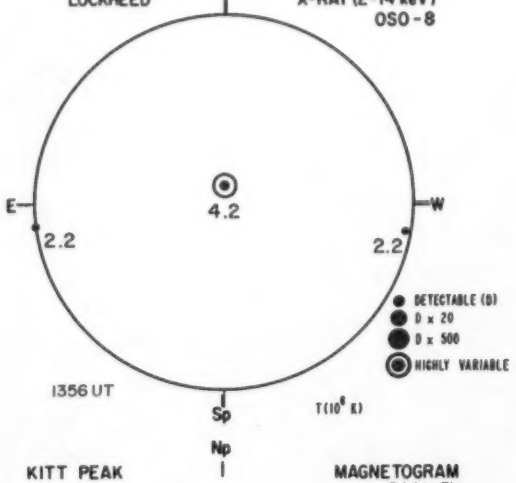


Ant. Temp. Unit 100°K

SEPTEMBER 18, 1975 (P=24.49, B_0=7.16, L_0=93.01)

LOCKHEED

X-RAY (2-14 keV)
OSO-8



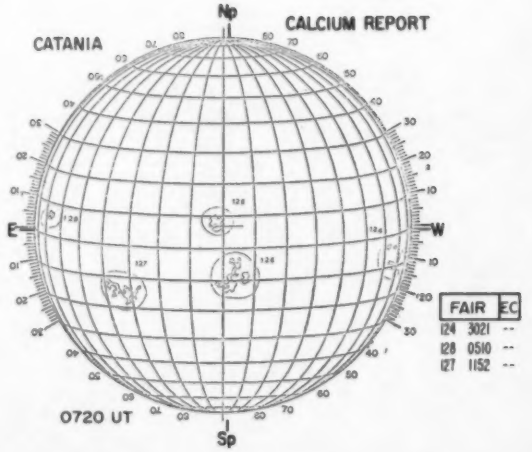
1356 UT

KITT PEAK

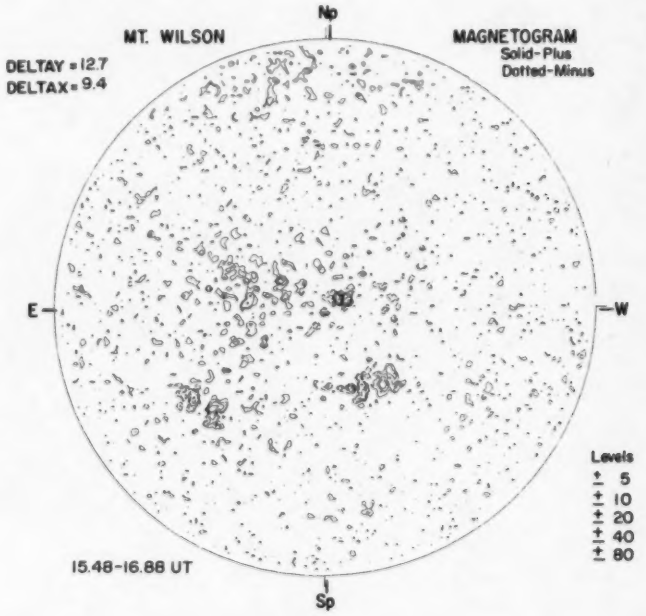
MAGNETOGRAM
Bright - Plus
Dark - Minus

CATANIA

CALCIUM REPORT



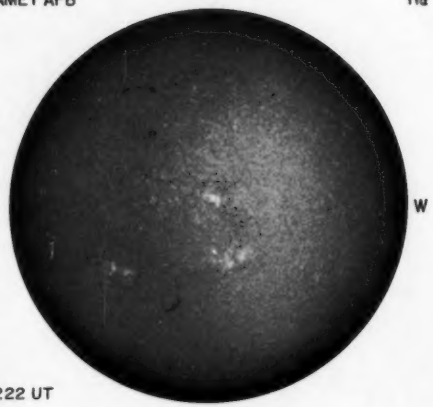
0720 UT



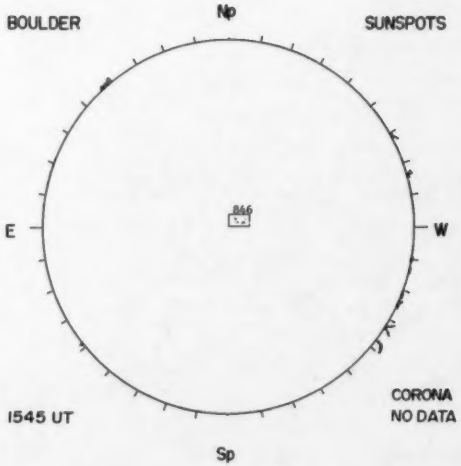
15.48-16.88 UT

18

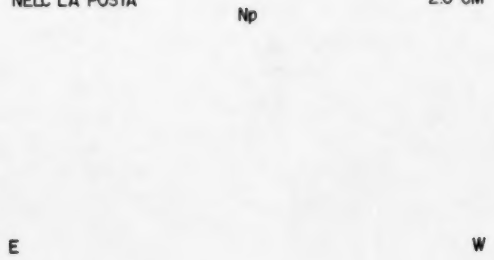
RAMEY AFB



BOULDER

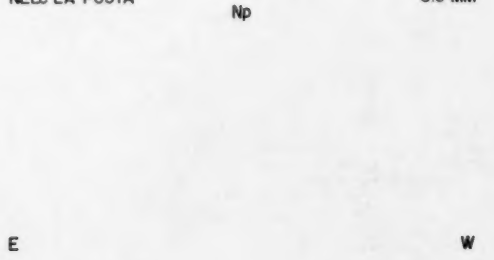


NELC LA POSTA



Ant. Temp. Unit 100°K

NELC LA POSTA

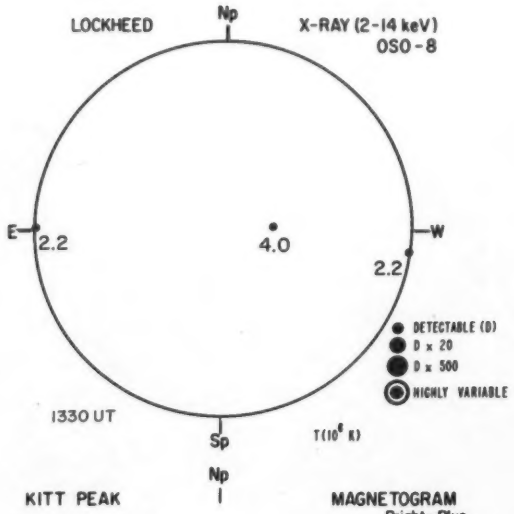


Ant. Temp. Unit 100°K

SEPTEMBER 19, 1975 (P = 24.64, B_o = 7.14, L_o = 79.81)

LOCKHEED

X-RAY (2-14 keV)
OSO-8

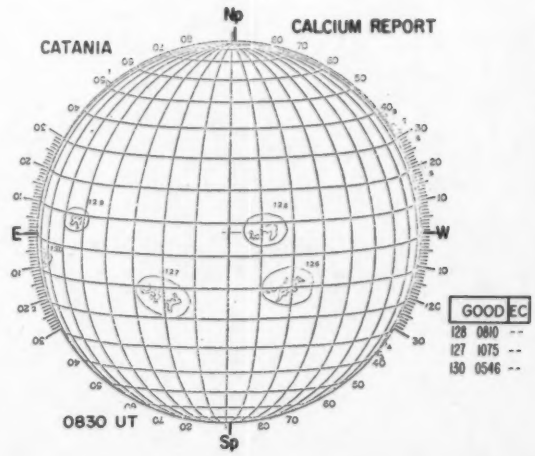


KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

CATANIA

CALCIUM REPORT

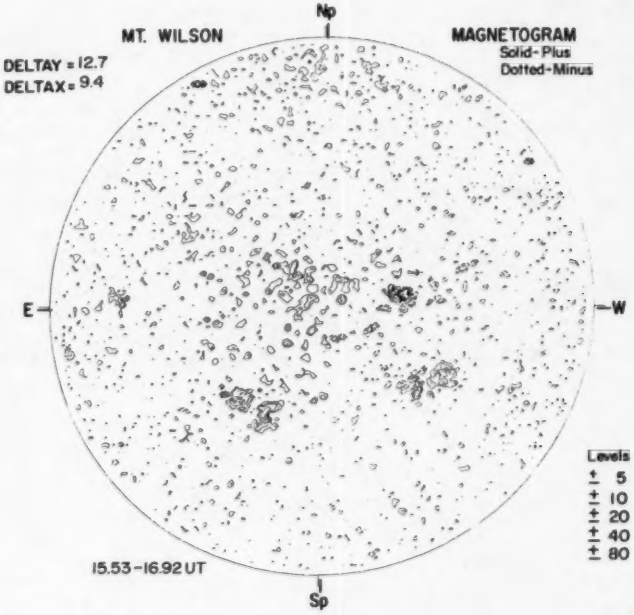


	GOOD	EC
128	0810	--
127	1075	--
130	0546	--

MT. WILSON

DELTAY = 12.7
DELTAX = 9.4

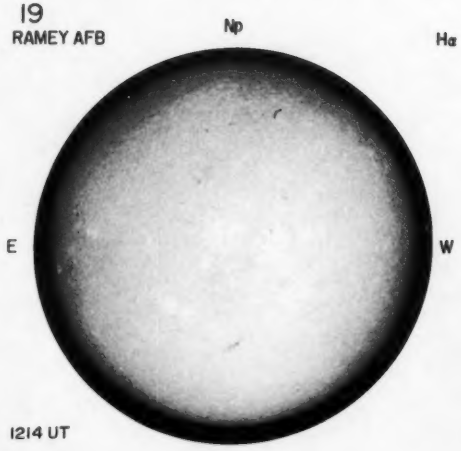
MAGNETOGRAM
Solid - Plus
Dotted - Minus



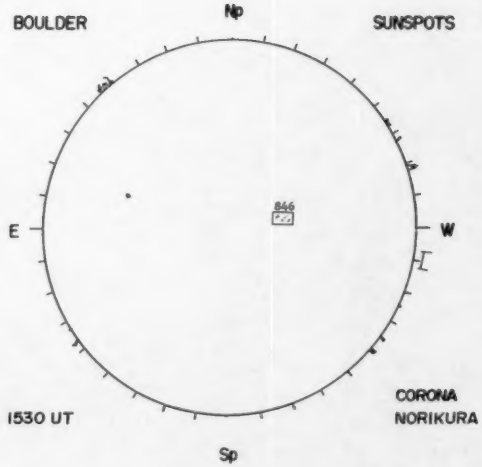
Levels
± 5
± 10
± 20
± 40
± 80

19

RAMEY AFB



BOULDER



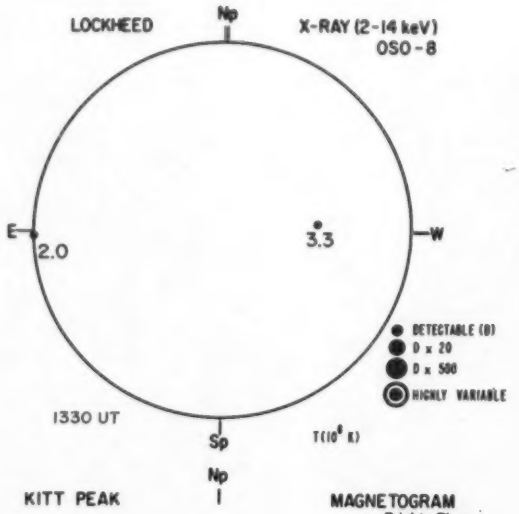
NELC LA POSTA

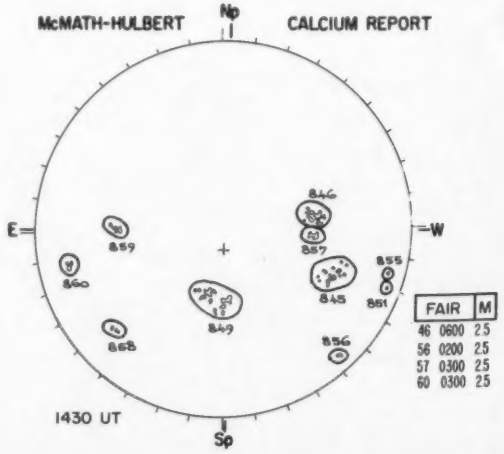
Ant. Temp. Unit 100°K

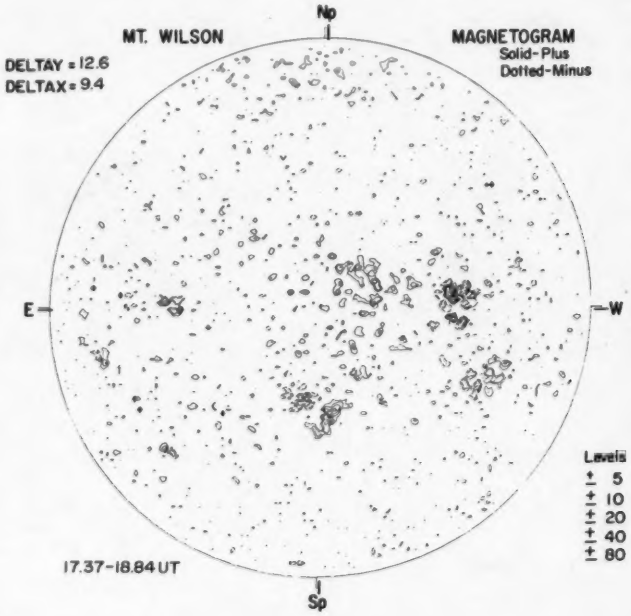
NELC LA POSTA

Ant. Temp. Unit 100°K

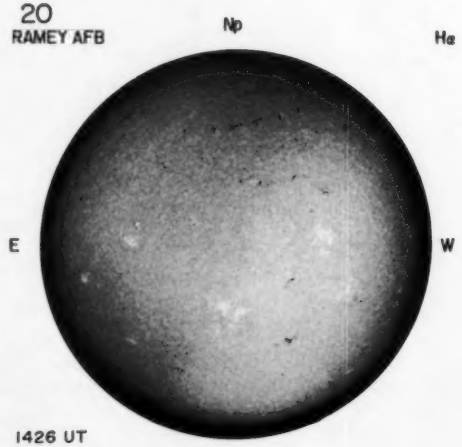
SEPTEMBER 20, 1975 (P=24.79, B_o=7.12, L_o=66.60)





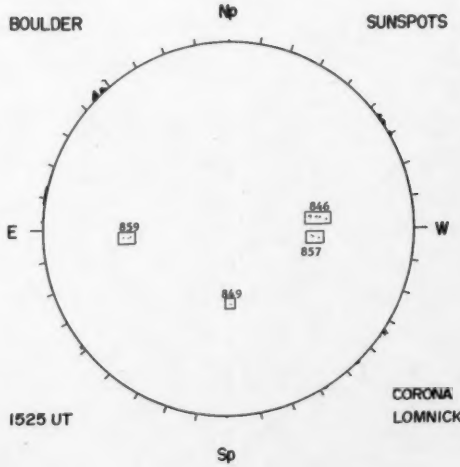


20
RAMEY AFB



1426 UT

BOULDER



1525 UT

CORONA
LOMNICKY-STIT

NELC LA POSTA

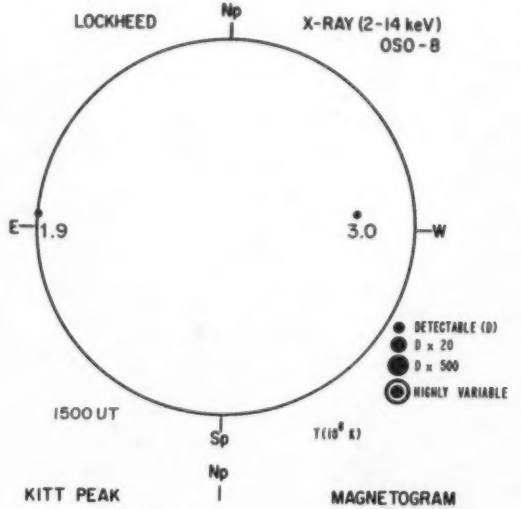
Ant. Temp. Unit 100°K

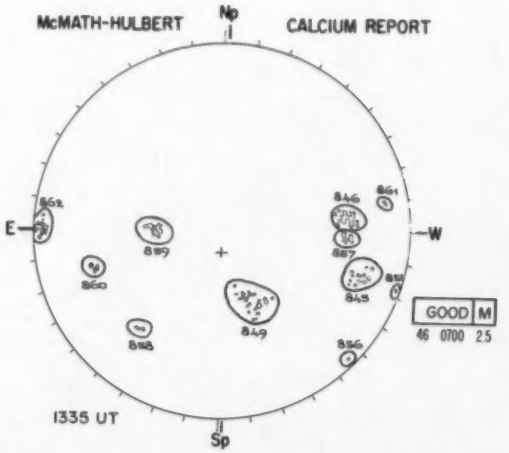
NELC LA POSTA

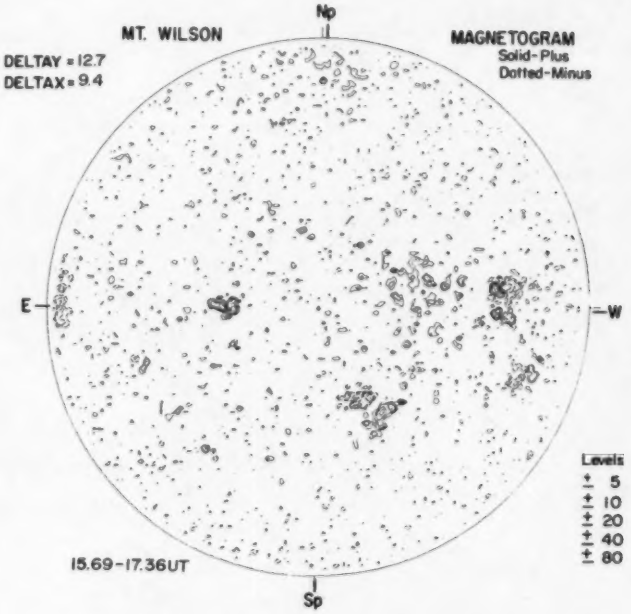
Ant. Temp. Unit 100°K

63
Sep 75

SEPTEMBER 21, 1975 (P=24.93, B_0=7.09, L_0=53.40)

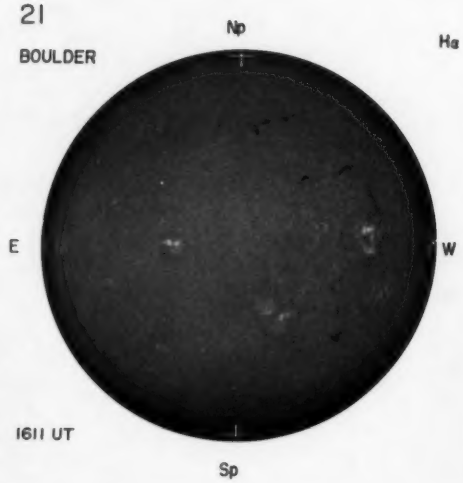




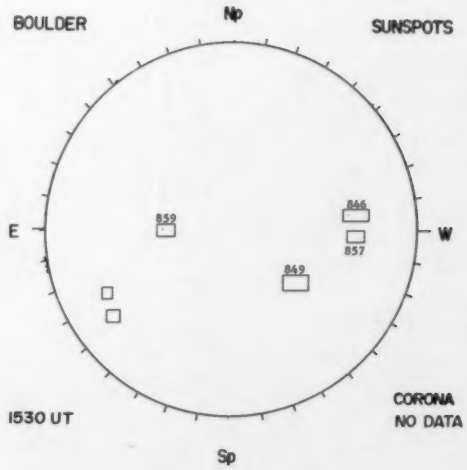


21

BOULDER



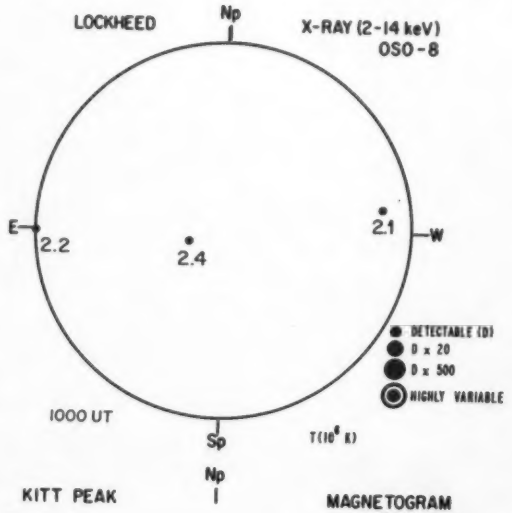
BOULDER

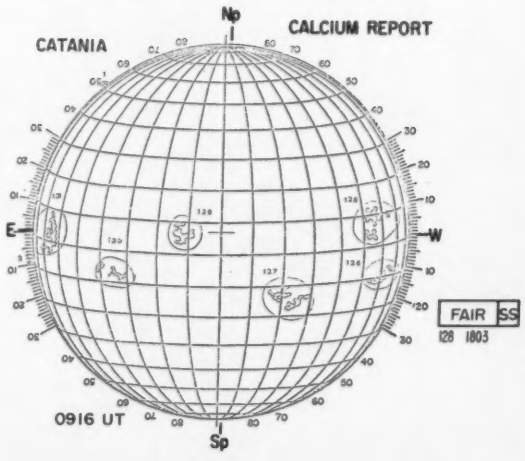


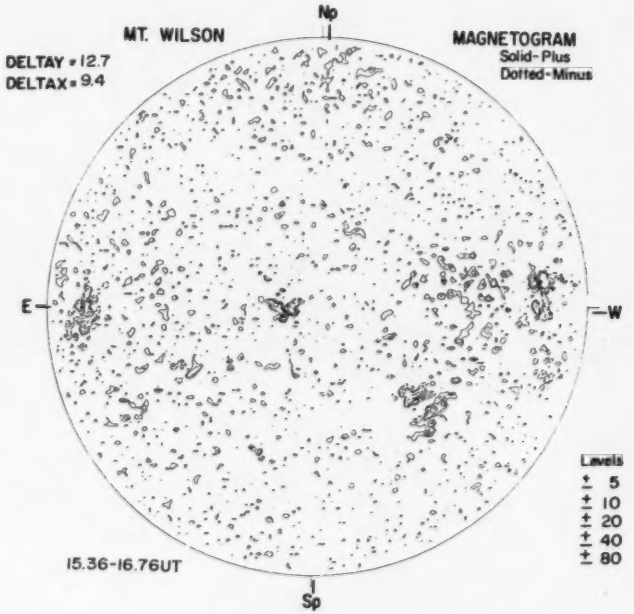
NELC LA POSTA

NELC LA POSTA

SEPTEMBER 22, 1975 (P = 25.07, B_0 = 7.06, L_0 = 40.20)





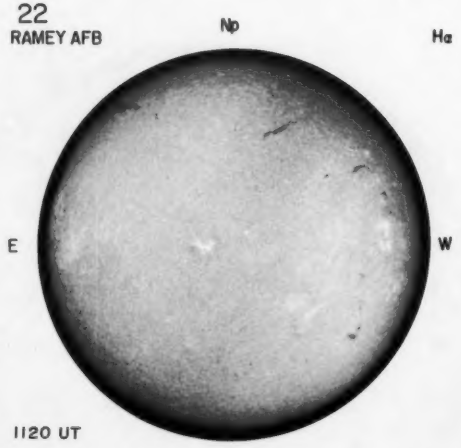


E— —W

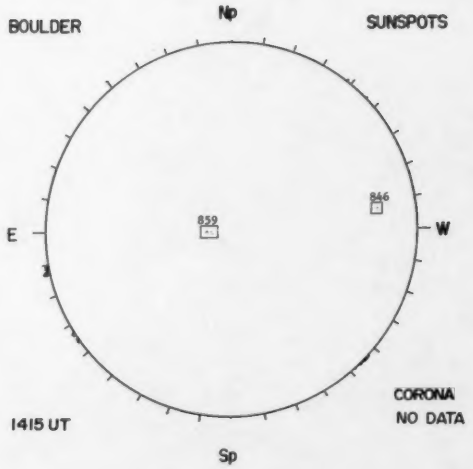
Sp

22

RAMEY AFB



BOULDER



NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

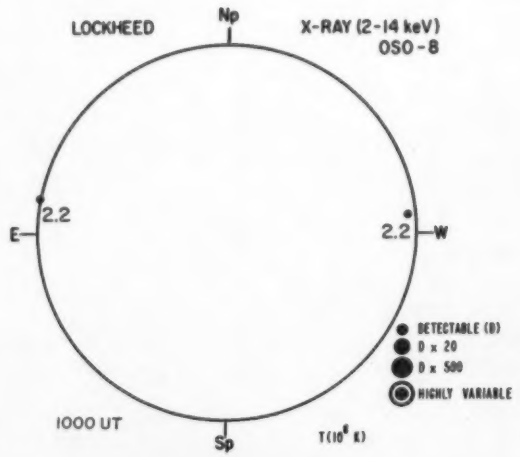
W

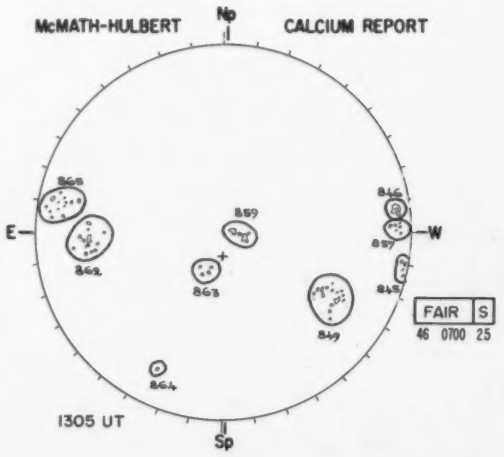
Sp

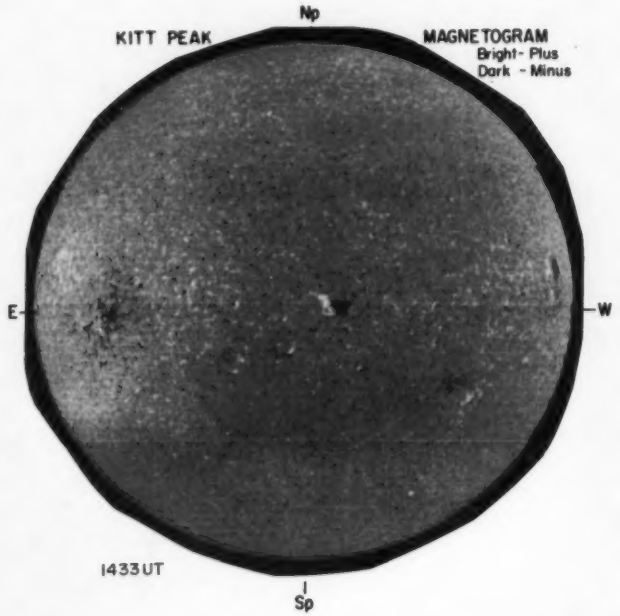
Ant. Temp. Unit 100°K

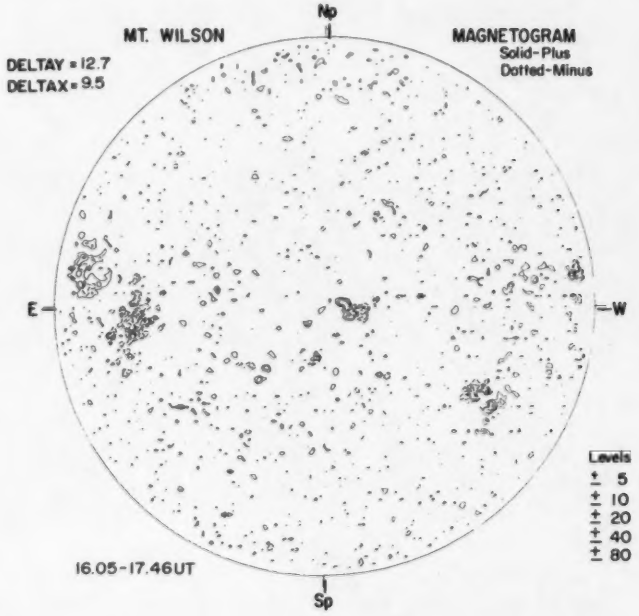
67
Sep 75

SEPTEMBER 23, 1975 (P = 25.19, B_0 = 7.04, L_0 = 27.00)

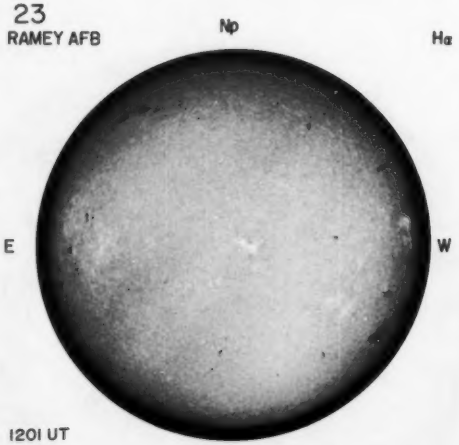






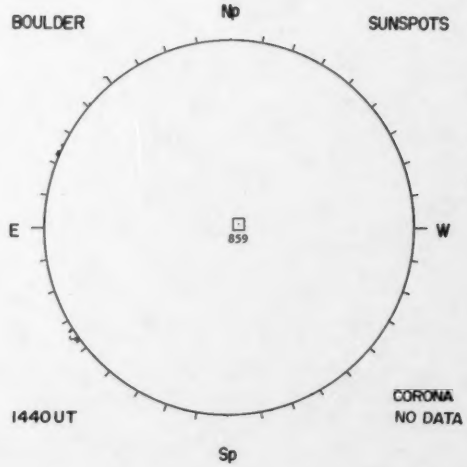


23
RAMEY AFB



1201 UT

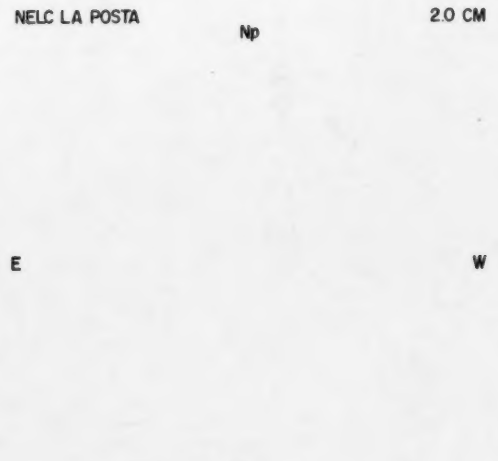
BOULDER



1440 UT

CORONA
NO DATA

NELC LA POSTA

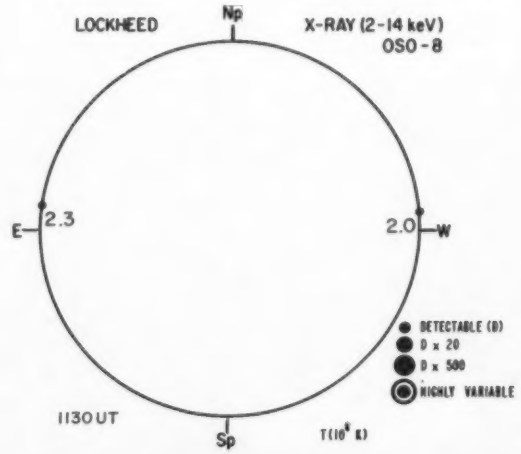


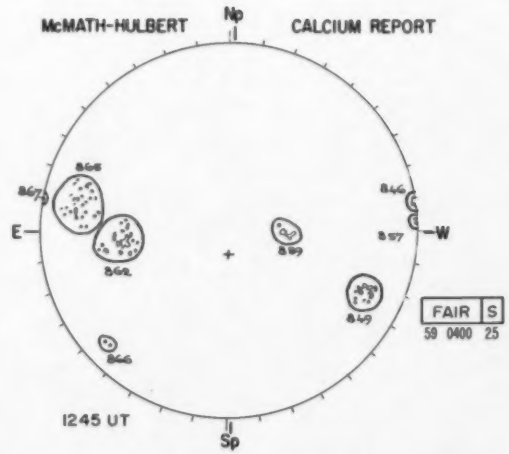
Ant. Temp. Unit 100°K

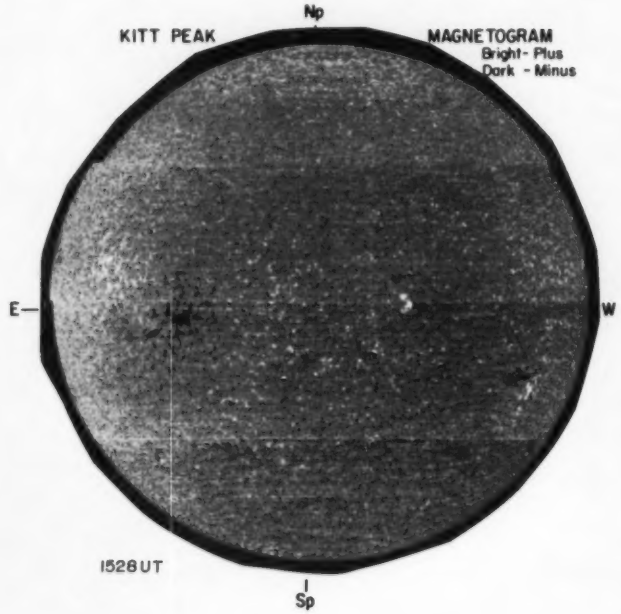
NELC LA POSTA

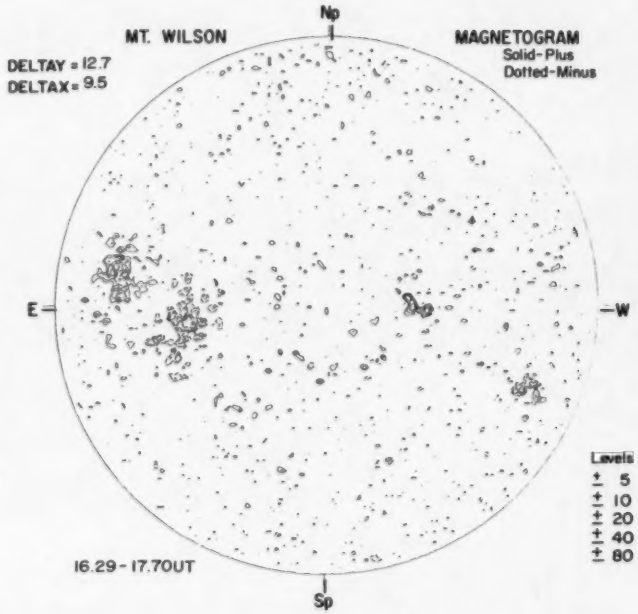
Ant. Temp. Unit 100°K

SEPTEMBER 24, 1975 (P=25.31, B_0=7.00, L_0=13.81)







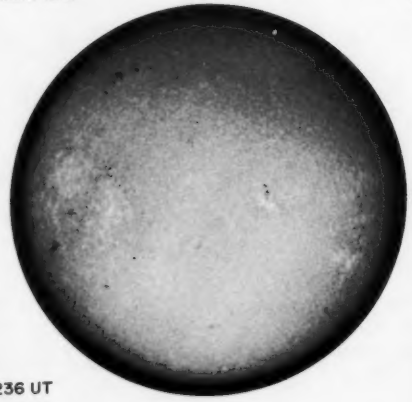


24

RAMEY AFB

Np

Hα



E

W

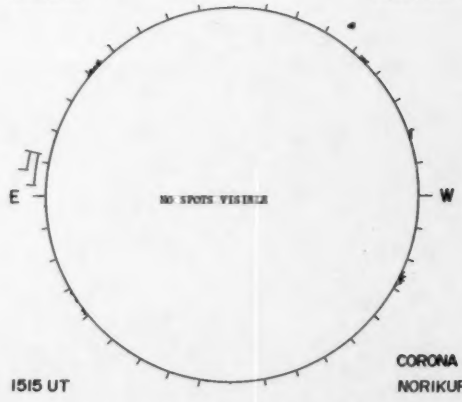
1236 UT

Sp

BOULDER

Np

SUNSPOTS



E

W

1515 UT

Sp

CORONA

NORIKURA

NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

W

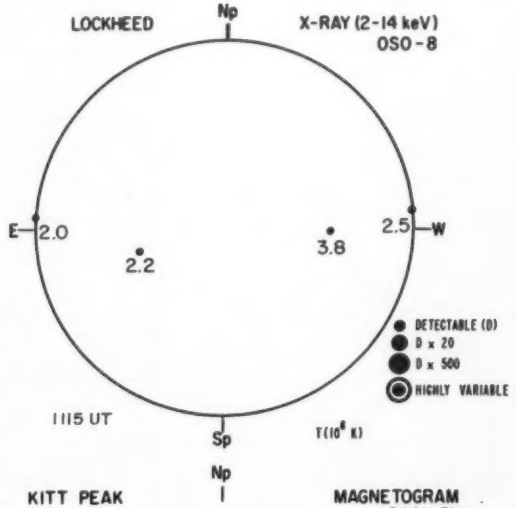
Sp

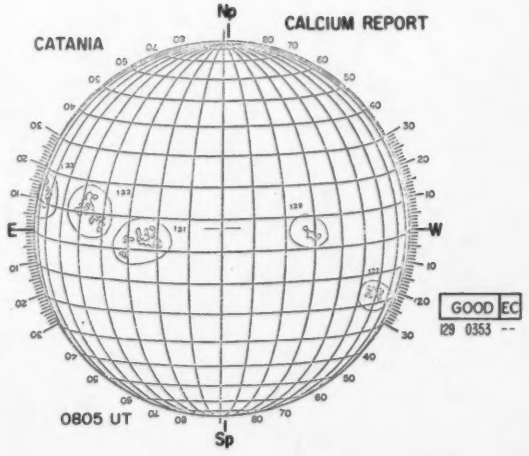
Ant. Temp. Unit 100°K

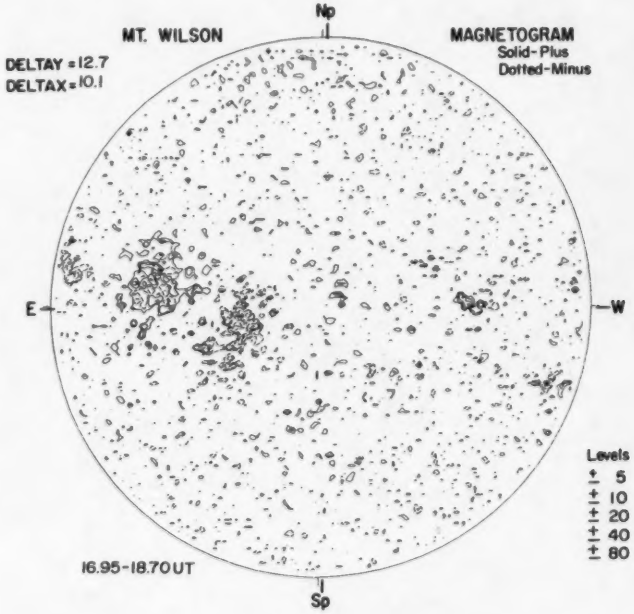
71

Sep 75

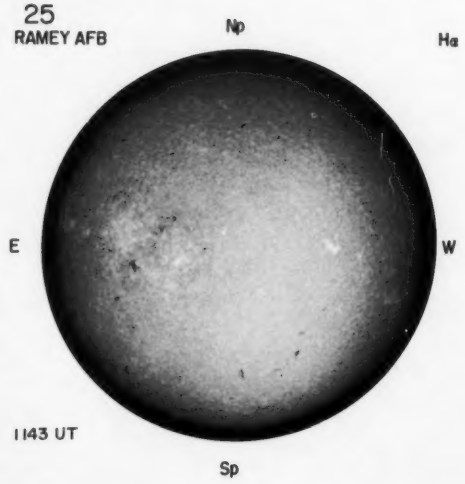
SEPTEMBER 25, 1975 (P=25.43, B_o=6.97, L_o=0.61)



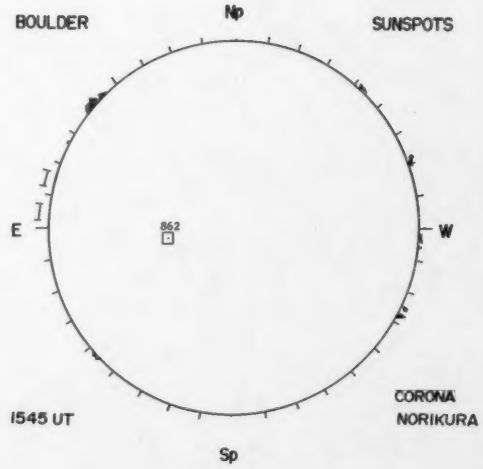




25
RAMEY AFB



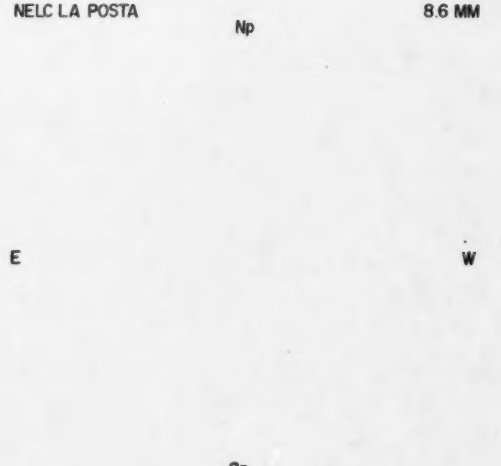
BOULDER



NELC LA POSTA

Ant. Temp. Unit 100°K

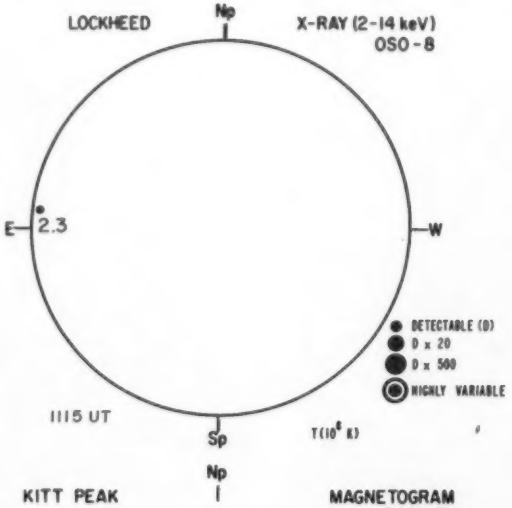
NELC LA POSTA

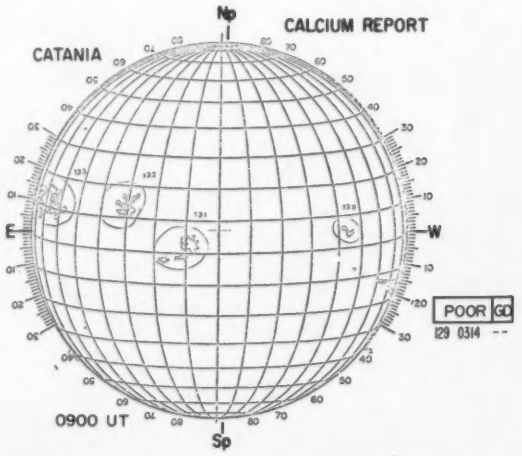


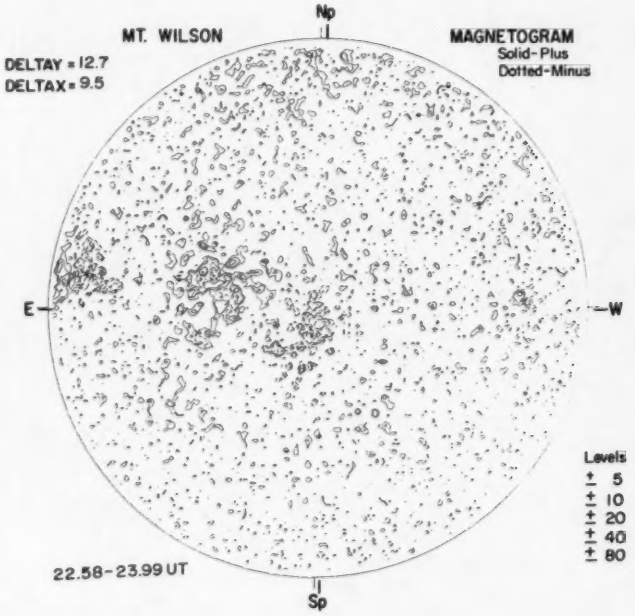
Ant. Temp. Unit 100°K

73
Sep 75

SEPTEMBER 26, 1975 (P = 25.54, B_0 = 6.94, L_0 = 347.41)

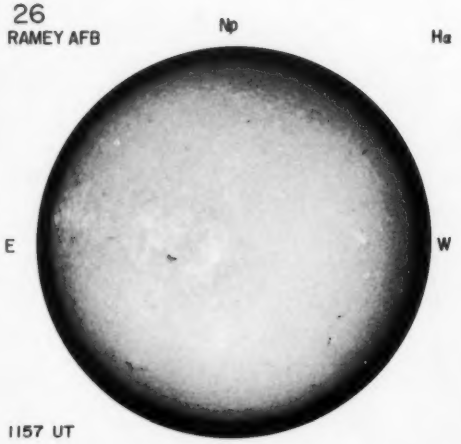




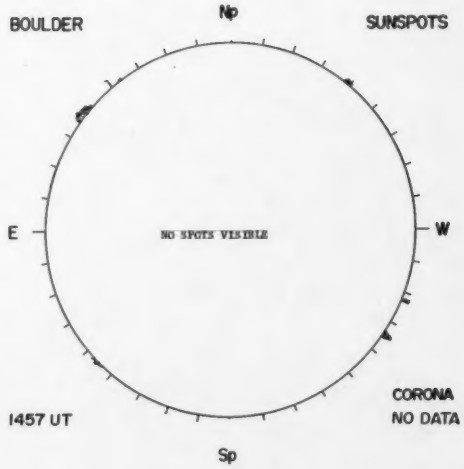


26

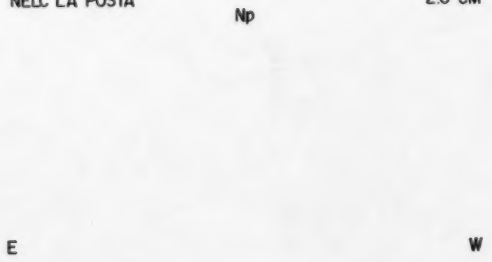
RAMEY AFB



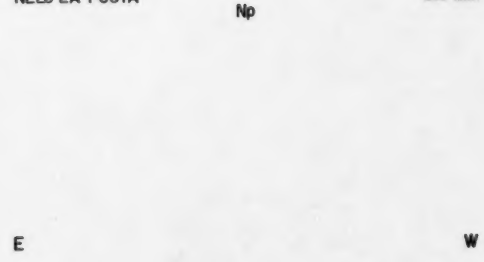
BOULDER



NELC LA POSTA



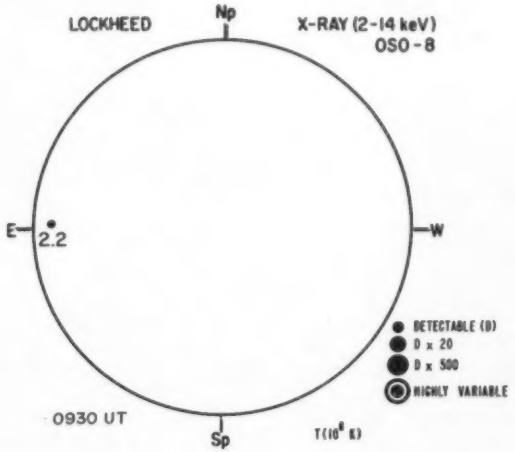
NELC LA POSTA



75
Sep 75

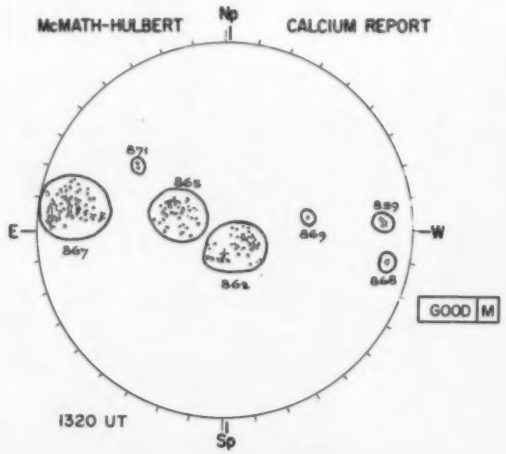
SEPTEMBER 27, 1975 (P = 25.64, B_0 = 6.90, L_0 = 334.21)

LOCKHEED X-RAY (2-14 keV) OSO-8

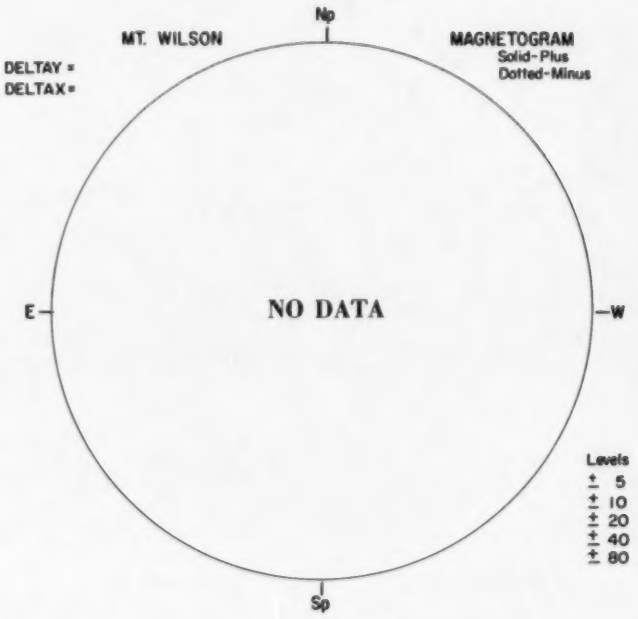


KITT PEAK MAGNETOGRAM
Bright - Plus
Dark - Minus

McMATH-HULBERT CALCIUM REPORT



MT. WILSON MAGNETOGRAM
Solid - Plus
Dotted - Minus
DELTAY =
DELTAX =

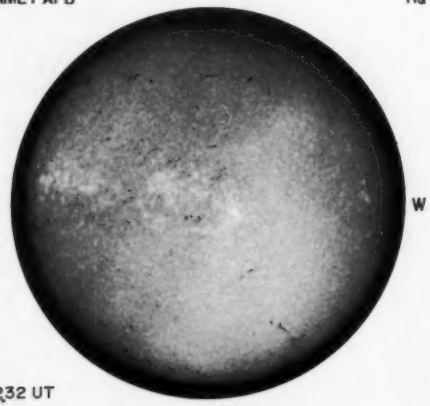


27

RAMEY AFB

Np

Hα



E

W

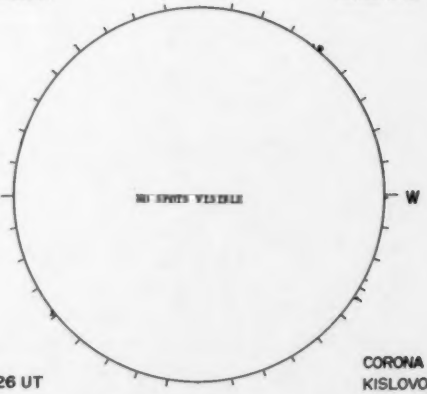
1232 UT

Sp

BOULDER

Np

SUNSPOTS



E

W

1526 UT

CORONA
KISLOVODSK

Sp

NELC LA POSTA

Np

2.0 CM

E

W

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

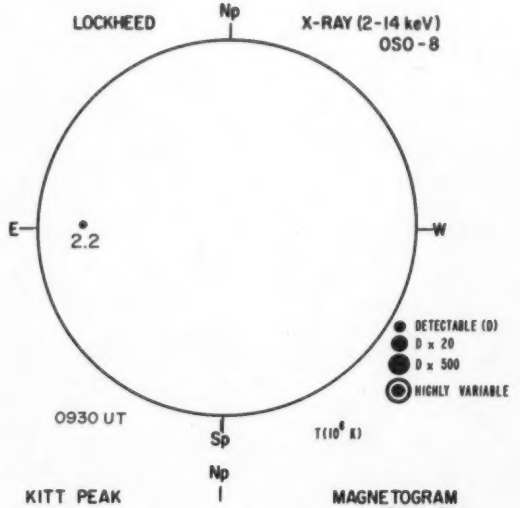
W

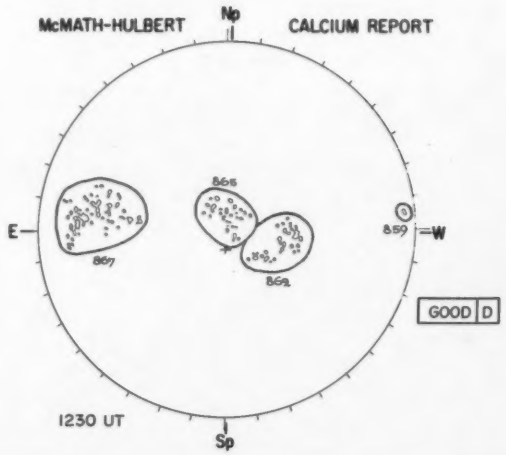
Sp

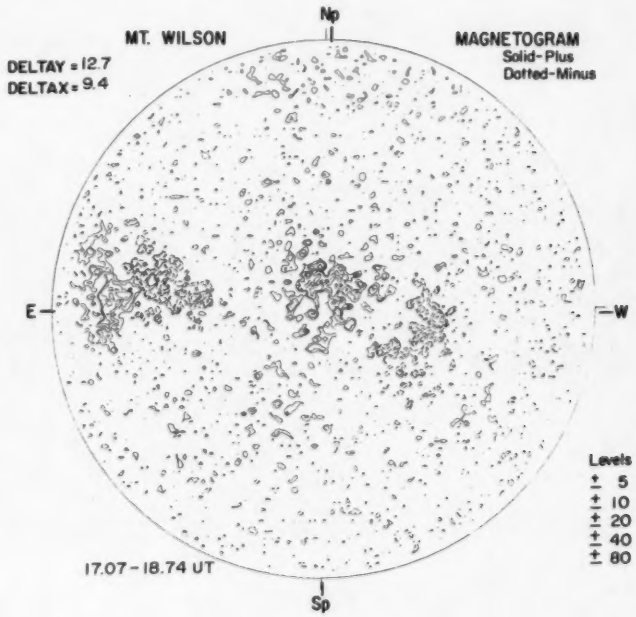
Ant. Temp. Unit 100°K

77
Sep 75

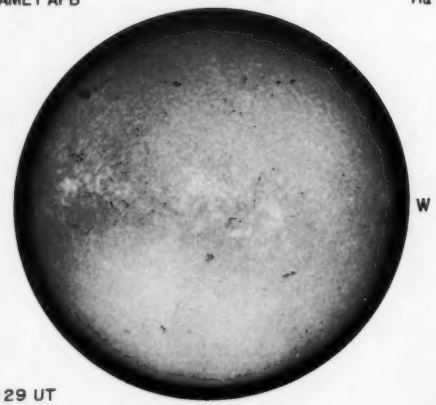
SEPTEMBER 28, 1975 (P = 25.73, B_o = 6.86, L_o = 321.01)



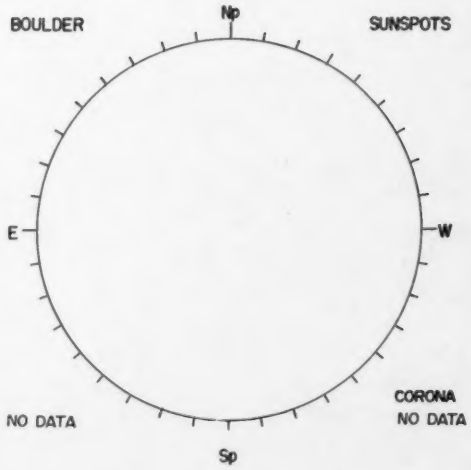




28
RAMEY AFB



BOULDER



NELC LA POSTA

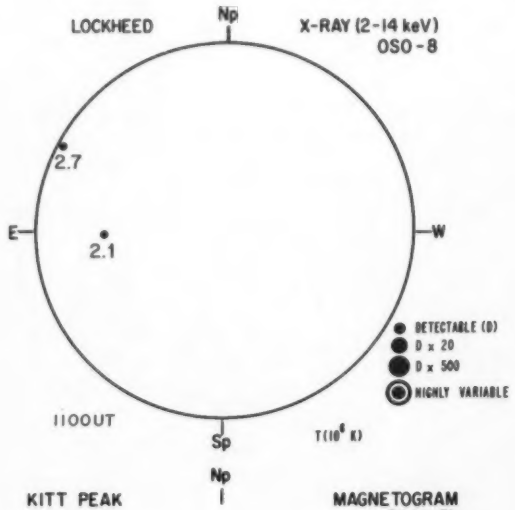
NELC LA POSTA

79
Sep 75

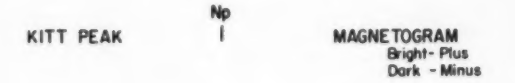
SEPTEMBER 29, 1975 (P=25.82, B_0=6.82, L_0=307.82)

LOCKHEED

X-RAY (2-14 keV)
OSO-8



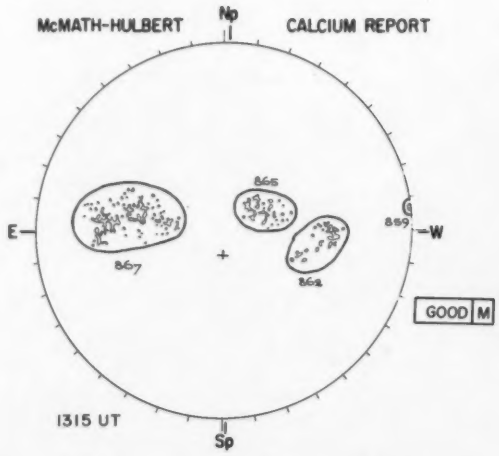
KITT PEAK



MAGNETOGRAM
Bright - Plus
Dark - Minus

McMATH-HULBERT

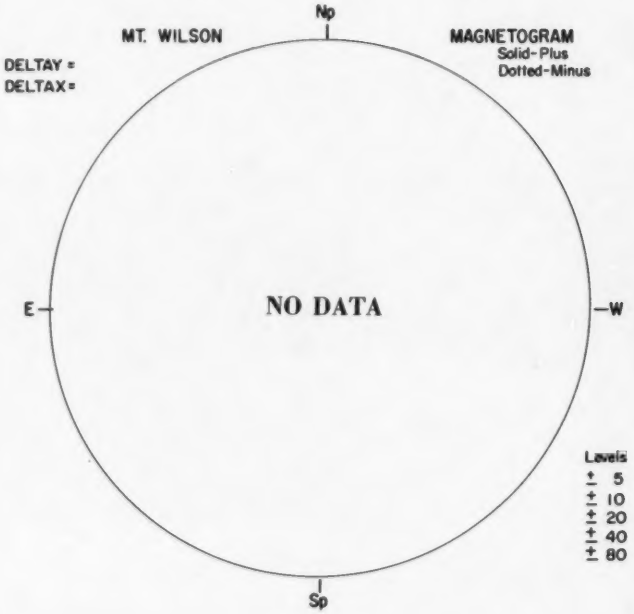
CALCIUM REPORT



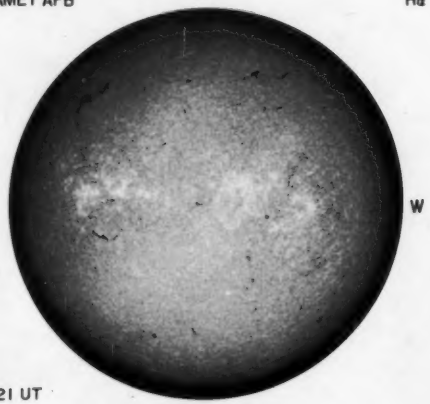
MT. WILSON

MAGNETOGRAM
Solid - Plus
Dotted - Minus

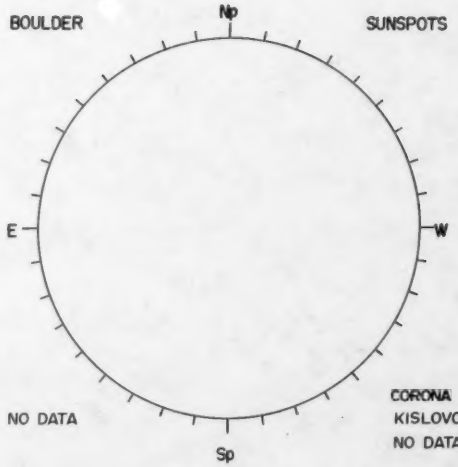
DELTAY =
DELTAX =



29
RAMEY AFB



BOULDER

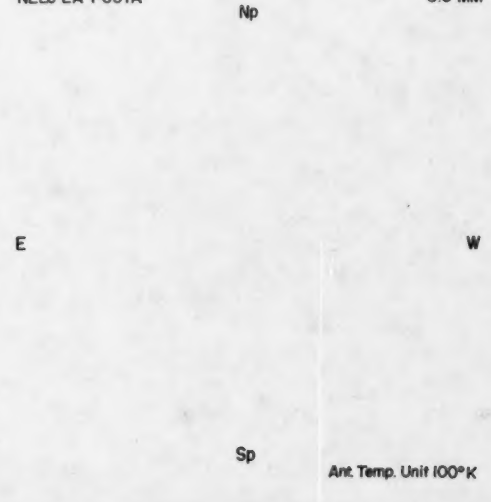


CORONA
KISLOVODSK
NO DATA 125°

NELC LA POSTA

Ant. Temp. Unit 100°K

NELC LA POSTA

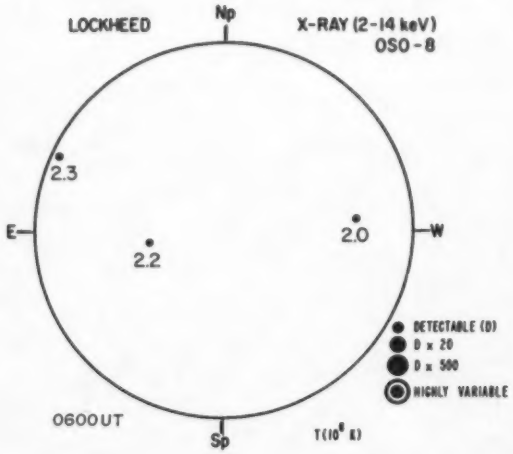


Ant. Temp. Unit 100°K

81
Sep 75

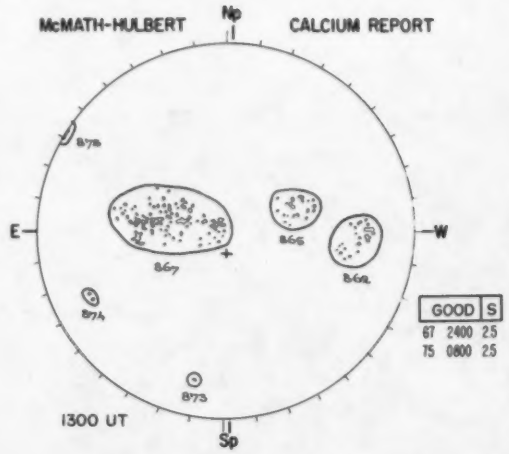
SEPTEMBER 30, 1975 (P=25.90, B_0=6.78, L_0=294.62)

LOCKHEED X-RAY (2-14 keV) OSO-8

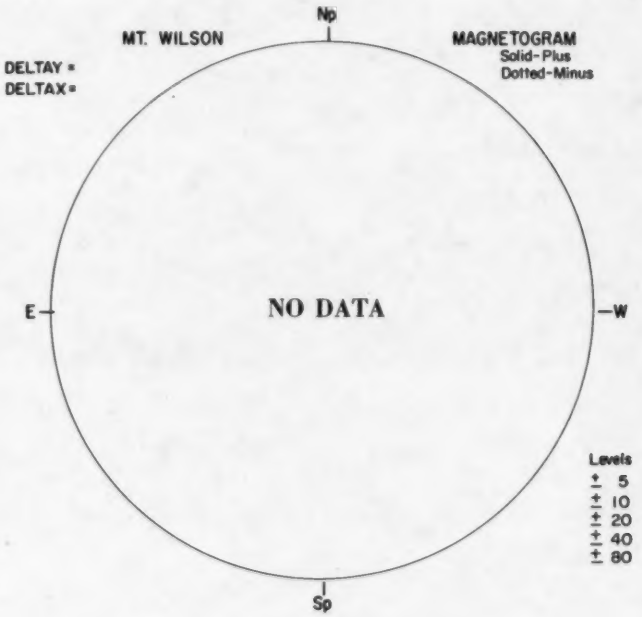


KITT PEAK MAGNETOGRAM
Bright - Plus
Dark - Minus

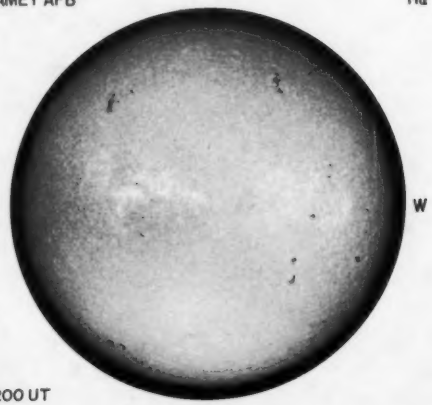
McMATH-HULBERT CALCIUM REPORT



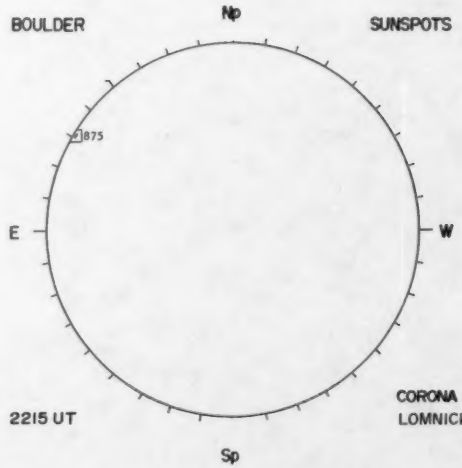
MT. WILSON MAGNETOGRAM
Solid-Plus
Dotted-Minus
DELTAY =
DELTAX =



30
RAMEY AFB



BOULDER



NELC LA POSTA

NELC LA POSTA

REGIONS OF SOLAR ACTIVITY

SEPTEMBER 1975

MCMATH REGION 13820 CMP DATE 1.1 RETURN OF REGION 13786 ROTATION 4

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	8	25	13820	N04 E86	318	900	2.0
75	8	26	13820	N04 E70	319	2500	2.5
75	8	27	13820	N04 E60		2000	2.5
75	8	28	13820	N04 E47	318	2500	2.5
75	8	29					
75	8						
75	8	30					
75	8	31					
75	8						
75	9	1					
75	9	2	13820	N05 W20	314	2500	2.5
75	9	3	13820	N05 W33	316	2500	2.0
75	9	4	13820	N05 W46	316	2500	2.0
75	9	6	13820	N06 W72	316	2100	1.5
75	9	7	13820	N08 W80	310	1200	1.5

SUNSPOT DATA

NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19612	N03 E80	324	X	2	B	10	1	AXX
19612	N03 E68	323	A					
19614	N00 E41	323	A					
19614	N00 E26	325	(AP)	3	B	0	7	BXO
19616	N10 E39	312	(A)	3	B	0	2	BXO
19614	N00 E11	326	(AP)	2	B	10	1	AXX
19614	N00 W02	326	X		R	20	6	BXI
	S01 E01				R	20	6	BXI
	S01 W13				B	10	6	AXX
	S01 W27				R	10	3	BXO

MCMATH REGION 13827 CMP DATE 2.4

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	2	13827	S36 W03	297	100	1.0

SUNSPOT DATA

NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13826 CMP DATE 5.0 RETURN OF REGION 13790 ROTATION 2

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	8	28	13826	N08 E83	282	800	2.0
75	8	30					
75	8						
75	8	31					
75	9	1					
75	9						
75	9						
75	9	2	13826	N08 E32	262	5000	3.0
75	9						
75	9	3	13826	N08 E20	263	5000	3.0
75	9						
75	9	4	13826	N08 E07	263	5500	3.0
75	9						
75	9						
75	9						
75	9						
75	9						
75	9	5					
75	9						
75	9						
75	9						
75	9						
75	9						
75	9	6	13826	N10 W20	264	5700	3.0
75	9						
75	9						
75	9						
75	9						
75	9	7	13826	N10 W30	260	5200	3.0
75	9						
75	9						
75	9						
75	9						
75	9	8	13826	N09 W44	261	5600	3.0
75	9	9	13826	N09 W59	263	5300	3.0
75	9	10	13826	N09 W71	261	5000	2.5
75	9	11	13826	N09 W85	262	4000	2.0

SUNSPOT DATA

NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19615	N09 E77	287	AP					
19615	N12 E50	287	A					
19617	N07 E78	259	(AF)	2	B	10	2	AXX
19617	N08 E60	264	(BF)	1				
19618	N07 E32	276	(BP)	1	B	0	2	AXX
19617	N08 E43	265	(BP	2	B	10	1	HHX
	N07 E53				B	10	3	BXO
19618	N07 E21	273						
19617	N06 E37	257	BF)	3	R	20	4	CRO
19617	N07 E20	261	(BF)	3	B	20	23	BXO
	N07 E16				B	0	4	AXX
19619	N07 W15	283	(AP)	1				
19618	N10 W05	273	(AF)	1	B	0	2	AXX
19617	N08 E08	260	(B)	3	B	120	43	CAI
	N02 E15				B	10	4	AXX
	N11 E18				B	10	4	BXO
	N07 E03				B	10	2	AXX
19619	N07 W29	282						
19618	N10 W19	272			B	10	4	BXO
19617	N08 W06	259	(B)	3	B	140	31	CAI
	S02 E27				B	0	5	BXO
	N08 E03				B	10	3	BXO
	N05 W10				B	20	5	BXO
19619	N09 W40	282	(AF)	1				
19618	N10 W31	273	(AP)	2	B	20	3	BXO
19617	N08 W17	259	(B)	3	B	130	25	CAI
	N06 E06				B	0	1	AXX
	N08 W09				B	50	7	BXO
19617	N06 W31	257			B	70	15	DAO
	N08 W22				B	20	2	AXX
	N09 W05				B	20	3	BXO
	N03 W36				B	20	3	BXO
	S01 W24				B	20	2	AXX
19617	N09 W45	260	(AF)	1				

MCMATH REGION 13830 CMP DATE 6.5

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	3	13830	S09 E40	243	100	1.0
75	9	6					

SUNSPOT DATA

NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
	S12 W09				B	0	1	AXX

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MCMATH REGION 13840 CMP DATE 7.4

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	12	13840	N36 W67	231	100	1.0									

MCMATH REGION 13847 CMP DATE 9.3

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	14	13847	N17 W69	207	300	1.5									

MCMATH REGION 13848 CMP DATE 9.7

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	14	13848	S24 W64	202	200	1.0									

MCMATH REGION 13833 CMP DATE 11.0

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	7	13833	N30 E46	184	100	2.0									

MCMATH REGION 13835 CMP DATE 11.9

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	8	13835	S28 E45	172	100	1.5									

MCMATH REGION 13831 CMP DATE 12.1 RETURN OF REGION 13811 ROTATION 2

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	6	13831	N28 E76	168	400	1.5									
75	9	7	13831	N28 E63	167	400	1.5									
75	9	8	13831	N28 E50	167	400	1.5									
75	9	9	13831	N28 E35	169	500	1.5									
75	9	10	13831	N28 E20	170	200	1.5									
75	9	11	13831	N28 E07	170	200	1.5									
75	9	12	13831	N28 W06	170	500	1.0									
75	9	13	13831	N28 W19	170	500	1.0									
75	9	14	13831	N28 W25	163	500	1.0									
75	9	15	13831	N28 W44	167	400	1.0									
75	9	16	13831	N28 W58	169	300	1.0									
75	9	17	13831	N28 W71	168	200	1.0									

MCMATH REGION 13832 CMP DATE 12.2 RETURN OF REGION 13796 ROTATION 4

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	6	13832	S09 E73	171	1400	2.0	19620	S10 E76	166	(AP)	3	B	20	1	HHX
75	9	7	13832	S08 E58	172	1800	2.5	19620	S09 E59	167	(AP)	4	B	120	1	HHX
75	9								S11 E68				B	20	1	AXX
75	9	8	13832	S08 E45	172	2000	2.5	19620	S09 E48	167	(AP)	5	B	90	2	HSX
75	9								S09 E55				B	0	1	AXX
75	9	9	13832	S08 E33	171	1900	2.5	19620	S09 E34	168	(AP)	4	B	110	1	HSX
75	9								S09 E40				B	40	3	AXX
75	9	10	13832	S08 E21	169	1800	2.5	19620	S09 E20	167	(AP)	4	R	70	1	HSX
75	9	11	13832	S08 E09	168	1600	2.5	19620	S09 E08	168	(BP)	4	R	80	4	HSX
75	9	12	13832	S08 W05	169	2000	3.0	19620	S09 W09	167	(AP)	4	R	70	3	CSO
75	9	13	13832	S08 W18	169	2000	3.0	19620	S09 W18	167	(AP)	4	H	60	3	CSO
75	9	14	13832	S08 W30	168	2300	3.0	19622	S07 W49	185	BF)	2				
75	9							19620	S09 W31	167	(BP)	4	B	60	1	HXX

(Cont'd)

REGIONS OF SOLAR ACTIVITY

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(Cont'd)

75	9	15	13832	S08 W44	167	2000	3.0	19620	S09 W45	168	(AP)	4	8	60	2	HSX
75	9	16	13832	S08 W59	170	1800	2.5	19620	S09 W60	166	AP		8	50	2	HSX
75	9	17	13832	S08 W64	161	1400	2.0	19620	S08 W71	167	(AP)	2	8	30	1	HSX

MCMATH REGION 13838 CMP DATE 13.6

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	9	13838	N09 E55	149	200	1.5									
75	9	10	13838	N09 E40	150	100	1.0									

MCMATH REGION 13836 CMP DATE 14.2

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	8	13836	N27 E75	142	100	1.5									

MCMATH REGION 13852 CMP DATE 14.7

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	16	13852	N01 W25	136	100	2.5									

MCMATH REGION 13851 CMP DATE 15.7

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	15	13851	S18 E01	122	100	1.0									
75	9	16	13851	S18 W12	123	100	1.0									
75	9	17	13851	S18 W24	121	100	1.0									
75	9	20	13851	S18 W64	122	100	1.5									
75	9	21	13851	S18 W76	121	100	1.0									

MCMATH REGION 13855 CMP DATE 15.8

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	20	13855	S11 W64	122	100	2.0									

MCMATH REGION 13843 CMP DATE 16.0

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	12	13843	S33 E46	118	100	1.0									
75	9	13	13843	S34 E33	118	100	1.0									

MCMATH REGION 13856 CMP DATE 16.7

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	20	13856	S39 W52	110	200	2.5									
75	9	21	13856	S39 W62	107	100	1.0									

MCMATH REGION 13861 CMP DATE 16.9

			CALCIUM PLAGE DATA					SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	21	13861	N12 W62	107	100	1.0									

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SEPTEMBER 1975

MCMATH REGION 13845 CMP DATE 17.9

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	12	13845	S09 E72	92	600	2.0
75	9	13	13845	S09 E60	91	700	2.0
75	9	14	13845	S08 E46	92	800	2.5
75	9	15	13845	S09 E30	93	900	2.5
75	9	16	13845	S09 E17	94	800	2.0
75	9	17	13845	S09 E05	92	700	2.0
75	9	20	13845	S09 W35	93	600	2.0
75	9	21	13845	S09 W48	93	400	1.5
75	9	23	13845	S09 W78	96	400	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19621	S08 E68	90	AP					
19621	S08 E53	96	AP		H	10	1	AXX
19621	S08 E41	95	(AP)	1				

MCMATH REGION 13846 CMP DATE 18.5

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	13	13846	N08 E65	86	100	1.0
75	9	14	13846	N08 E52	86	100	1.5
75	9	15	13846	N08 E38	85	200	2.0
75	9	16	13846	N08 E25	86	200	1.5
75	9	17	13846	N08 E12	85	300	2.5
75	9	18					
75	9	19					
75	9	20	13846	N09 W29	87	600	2.5
75	9	21	13846	N09 W42	87	700	2.5
75	9	22					
75	9	23	13846	N09 W69	87	700	2.5
75	9	24	13846	N09 W83	89	600	2.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19623	N08 E25	81	A					
19623	N08 E10	86	(BF)	3	B	10	9	BXO
19623	N09 W03	87	(D)	3	B	40	11	BXO
19623	N09 W16	87	(D)	3	B	20	16	BXO
19623	N09 W29	87	(BF)	3	B	80	6	BXI
19623	N09 W43	88	(B)	3	B	30	6	BXO
	N10 W53				B	0	1	AXX

MCMATH REGION 13857 CMP DATE 18.5

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	20	13857	N04 W28	86	300	2.5
75	9	21	13857	N04 W42	87	500	2.0
75	9	23	13857	N04 W69	87	400	1.5
75	9	24	13857	N04 W84	90	100	1.5

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19624	N04 W28	86	(BP)	3	B	20	4	BXI
19624	N04 W42	87	(B)	2	B	10	3	BXO

MCMATH REGION 13853 CMP DATE 18.6

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	17	13853	N19 E14	83	100	1.5

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13854 CMP DATE 20.8

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	17	13854	N41 E43	54	100	2.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13849 CMP DATE 20.9 RETURN OF REGION 13818 ROTATION 2

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	9	14	13849	S14 E84	54	300	1.0
75	9	15	13849	S14 E70	53	500	2.0
75	9	16	13849	S14 E56	55	1100	2.5
75	9	17	13849	S14 E44	53	1000	2.5
75	9	20	13849	S15 E04	54	800	2.0
75	9	21	13849	S15 W09	54	600	2.0
75	9	23	13849	S14 W37	55	600	2.0
75	9	24	13849	S14 W50	56	600	2.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19625	S16 E01	57	(B)	1	B	10	2	BXO
	S10 W20				B	10	3	BXO

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SEPTEMBER 1975

MCMATH REGION 13868 CMP DATE 22.9

				CALCIUM PLAGE DATA					SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT		MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	27	13868	S07 W61	27	200	1.0										

MCMATH REGION 13859 CMP DATE 23.2

				CALCIUM PLAGE DATA					SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT		MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	20	13859	N08 E35	23	300	2.0		19626	N06 E34	24	(BP)	2	8	20	4	BXI
75	9	21	13859	N08 E22	23	500	2.0		19626	N06 E21	24	(BF)	2	8	20	4	BXO
75	9	22							19626	N06 E07	24	(BP)	2	8	10	7	BXO
75	9	23	13859	N07 W05	23	400	2.0										
75	9	24	13859	N07 W18	24	400	2.5										
75	9	27	13859	N07 W58	24	300	2.0										
75	9	28	13859	N07 W70	24	200	1.0										
75	9	29	13859	N07 W85	25	200	1.0										

MCMATH REGION 13858 CMP DATE 23.6

				CALCIUM PLAGE DATA					SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT		MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	20	13858	S26 E39	19	200	2.0										
75	9	21	13858	S26 E27	18	100	1.5										

MCMATH REGION 13863 CMP DATE 23.9

				CALCIUM PLAGE DATA					SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT		MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	23	13863	S05 E05	13	200	1.5										

MCMATH REGION 13860 CMP DATE 24.8

				CALCIUM PLAGE DATA					SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT		MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	20	13860	S06 E55	3	300	2.5										
75	9	21	13860	S06 E43	2	200	1.5			S15 E43				8	0	1	AXX

MCMATH REGION 13864 CMP DATE 25.5

				CALCIUM PLAGE DATA					SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT		MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	23	13864	S40 E26	353	100	1.5										

MCMATH REGION 13869 CMP DATE 25.6

				CALCIUM PLAGE DATA					SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT		MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	27	13869	N10 W26	352	100	1.0										

MCMATH REGION 13876 CMP DATE 27.0

				CALCIUM PLAGE DATA					SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT		MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	10	01	13876	N32 W60		200	1.5										

REGIONS OF SOLAR ACTIVITY

SEPTEMBER 1975

MCMATH REGION 13862 CMP DATE 27.3 RETURN OF REGION 13820* ROTATION 5

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	21	13862	N02 E76	330	700	1.5									
75	9	23	13862	N02 E45	334	700	2.0									
75	9	24	13862	N02 E33	334	800	2.0									
75	9	25						19627	N03 E21	330	(AP)	2	B	10	1	AXX
75	9	27	13862	N02 W04	330	1000	2.0									
75	9	28	13862	N03 W16	330	1200	2.0									
75	9	29	13862	N04 W30	330	1300	2.0									
75	9	30	13862	N03 W42	329	1100	2.0									
75	10	01	13862	N04 W64		1000	1.5									
75	10	02	13862	N04 W77		700	1.0									

MCMATH REGION 13866 CMP DATE 28.2

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	24	13866	S32 E49	318	100	1.0									

MCMATH REGION 13865 CMP DATE 28.6 RETURN OF REGION 13820* ROTATION 5

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	23	13865	N11 E64	315	500	1.5									
75	9	24	13865	N12 E53	314	700	1.5									
75	9	27	13865	N12 E14	312	800	1.5									
75	9	28	13865	N11 E01	313	800	1.5									
75	9	29	13865	N12 W12	312	900	1.5									
75	9	30	13865	N12 W24	311	700	1.5									
75	10	01	13865	N12 W48		700	2.5									
75	10	02	13865	N12 W53		700	1.5									
75	10	03	13865	N12 W66		500	1.5									
75	10	04	13865	N12 W78		400	1.5									

MCMATH REGION 13877 CMP DATE 28.8

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	10	03	13877	S05 W63		200	1.5									

MCMATH REGION 13871 CMP DATE 29.9

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	9	27	13871	N26 E31	295	100	1.0									

*An asterisk beside the "Return of Region" number indicates that the new region is only part of the area of the old region.

Note: Region 13831 is a return of the active new cycle region 13811 of the previous rotation.
Region 13832 experienced a resurgence on the disk during the previous rotation.
Region 13845 is new plage that has developed near the location of old region 13807.
Region 13846 has formed amongst remnants of old plage 13808 of the previous rotation.
No calcium spectroheliograms were obtained at the McMath-Hulbert Observatory on September 5, 18, 19, 22, 25 and 26, 1975.
Sunspot observations were made at Mt. Wilson Observatory on all days during September 1975.

DAILY CALCIUM PLAGE INDEX

SEPTEMBER 1975

YR	MO	DAY	INDEX	YR	MO	DAY	INDEX	YR	MO	DAY	INDEX
75	9	1	*	75	9	11	4.6	75	9	21	5.1
75	9	2	18.5	75	9	12	6.8	75	9	22	*
75	9	3	18.2	75	9	13	6.8	75	9	23	4.2
75	9	4	19.6	75	9	14	7.9	75	9	24	3.8
75	9	5	*	75	9	15	7.1	75	9	25	*
75	9	6	17.5	75	9	16	5.9	75	9	26	*
75	9	7	16.1	75	9	17	5.3	75	9	27	5.6
75	9	8	15.6	75	9	18	*	75	9	28	7.0
75	9	9	12.3	75	9	19	*	75	9	29	7.3
75	9	10	8.1	75	9	20	6.0	75	9	30	8.4

* NO OBSERVATIONS

SUDDEN IONOSPHERIC DISTURBANCES

SEPTEMBER 1975

DAY	UNIVERSAL TIME				WIDE SPREAD INDEX	NUMBER OF STATION REPORTS BY TYPE							KNOWN FLARE	McMATH REGION
	START	END	MAX	IMP		SWF	SCNA	SEA	SPA	LF-SPA	SES	SFD		
11	2007	2033	2015	1-	1	1							2017E	13832
12	1621	1715	1631	5	1	2		2			9		1613	X-RAY

PERIODS OF NO OBSERVATIONS:

DATE	TIME (UT) and STATION
01-05	0000-2400 A1
01-30	0000-2400 A36
01	0000-2400 A33, 0440-0615 UM (10 kHz), 0725-0906 UM (10 kHz), 0942-1016 UM (10 kHz), 1953-2045 UM (10 kHz), 2055-2153 UM (10 kHz)
02	0000-2400 TN, 0523-0600 TM, 0705-0855 UM (10 kHz), 0834-1259 TM, 0917-0949 UM (10 kHz), 1129-1229 MC 1606-1810 TM, 1955-2050 UM (10 kHz)
03	0735-0909 UM (10 kHz), 0950-1020 UM (10 kHz), 1600-2105 TM, 1938-2143 UM (10 kHz)
04	0430-0503 TM, 0455-0530 UM (10 kHz), 0640-0840 TM, 0745-1000 UM (10 kHz), 0918-2400 TM, 1948-2030 UM (10 kHz)
05-15	0000-2400 A30
05	0500-0540 UM (10 kHz), 0753-0914 UM (10 kHz), 1600-1904 TM, 1935-2007 UM (10 kHz), 2012-2058 UM (10 kHz)
06-07	0000-2400 A29
06	0745-0817 UM (10 kHz), 1000-1040 UM (10 kHz), 1921-1956 UM (10 kHz), 2004-2037 UM (10 kHz)
07	0519-0625 UM (10 kHz), 0657-0750 UM (10 kHz), 0802-0943 UM (10 kHz), 1950-2035 UM (10 kHz), 2045-2132 UM (10 kHz)
08	0444-0520 UM (10 kHz), 0753-1007 UM (10 kHz), 1953-2027 UM (10 kHz), 2100-2155 UM (10 kHz), 2254-2332 TM
09	0500-0605 UM (10 kHz), 0752-0932 UM (10 kHz)
10	0740-0945 UM (10 kHz), 1925-2026 UM (10 kHz)
11	0740-0932 UM (10 kHz), 1942-2024 UM (10 kHz)
12	0828-0912 UM (10 kHz), 0940-1020 UM (10 kHz), 2004-2150 UM (10 kHz)
13-14	1229-1316 MC
13	0620-0730 UM (10 kHz)
14	0237-0329 UM (10 kHz), 0401-0445 UM (10 kHz), 0825-0858 UM (10 kHz), 0944-1044 UM (10 kHz)
15-17	0000-2400 A4
15	0750-0920 UM (10 kHz), 1637-1648 TM, 1714-1838 TM, 1943-2020 UM (10 kHz)
16	0730-0915 UM (10 kHz), 0930-1007 UM (10 kHz), 1000-1340 UM (16 kHz), 1953-2030 UM (10 kHz), 2007-2016 TM
17	0746-1000 UM (10 kHz), 1904-1955 UM (10 kHz), 2044-2320 UM (16 kHz)
18	0800-0908 UM (10 kHz), 2036-2155 UM (16 kHz)
19	0800-0915 UM (10 kHz), 1743-1815 UM (10 kHz), 2153-2230 UM (10 kHz)
20	0445-0523 UM (10 kHz), 0540-0616 TM, 0652-0702 TM, 0758-0826 UM (10 kHz), 1025-1058 UM (10 kHz), 1842-1925 UM (10 kHz), 2045-2123 UM (16 kHz)
21-22	0000-2400 A37
21	0000-2400 TN, 0732-1013 UM (10 kHz), 2050-2140 UM (10 kHz)
22	0735-0916 UM (10 kHz), 1140-1227 UM (10 kHz), 1829-1905 UM (10 kHz)
23	0707-1035 UM (10 kHz), 1000-1345 UM (16 kHz), 1400-1408 TM, 1641-1716 TM
24	0753-1013 UM (10 kHz), 1837-1930 UM(10 kHz), 2050-2135 UM (10 kHz)
25	0744-0920 UM (10 kHz), 2033-2150 UM (16 kHz)
26	0730-0929 UM (10 kHz), 1010-1055 UM (10 kHz), 1855-1940 UM (10 kHz)
27	0000-0030 UM (10 kHz), 0740-0835 UM (10 kHz), 0920-1016 UM (10 kHz), 1820-1930 UM (10 kHz)
28	0747-0846 Um (10 kHz)
29	0753-0843 UM (10 kHz), 1040-1120 UM (10 kHz), 1800-1910 UM (16 kHz), 1806-1907 UM (10 kHz), 2010-2200 UM (10 kHz)
30	0137-0428 UM (10 kHz), 0810-0905 UM (10 kHz), 1745-1910 UM (10 kHz)

STATIONS REPORTING FOR SEPTEMBER 1975

AAVSO (A1, A4, A19, A21, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A40) (SES) (A1, A26, A31) (SEA) (A31) (SWF)
DARMSTADT (DA) (SWF)
DEBRE ZEIT (DE) (SPA)
HERSTMONCEUX (HC) (SEA)
HIRAISO (HI) (SWF)
HOBART (TA) (SEA)
INUBO (IN) (SPA)
MC MATH (MC) (SWF, SCNA)
PANSKA VES (PU) (SWF, SEA, SES)
POITIERS (PO) (SEA)
PRESTON (LO) (SEA)
SAO PAULO (UM) (SES, SPA)
SOFIA (SF) (SES)
ST CLOUD (SC) (SES)
TABLE MOUNTAIN (TM) (SPA, LF-SPA)
TORINO (TN) (SPA)
UPICE (UI) (SEA)

SID's BY McMATH REGION

SEPTEMBER 1975

DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
REGION																														
32											1																			
X-RAY													1																	
UNKNOWN																														
NO FP																														

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1975

SEP 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
01	0000	1009	MANI							0451.6	0451.9	3	III
	0514	1754	DURN										
	0648	1716	WEIS										
	1011	2314	SGMR										
	1302	2245	HARV										
	2146	2400	MANI										
	1421	2400	BOUL							2229.0	2230.0	1	III
02	0000	0130	BOUL										
	0000	1007	MANI										
	0515	1752	DURN										
	0525	1411	WEIS										
	1013	2313	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	1445	1725	WEIS										
	2146	2400	MANI										
03	0000	1006	MANI										
	0000	0130	BOUL										
	0517	0621	DURN										
	0528	1720	WEIS										
	0638	1750	DURN										
	1014	2311	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	2146	2400	MANI										
04	0000	1005	MANI										
	0000	0130	BOUL										
	0519	1748	DURN										
	0526	0921	WEIS										
	0930	1715	WEIS										
	1015	2309	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	2146	2400	MANI										
05	0000	1005	MANI										
	0000	0130	BOUL										
	0521	1746	DURN										
	0530	1710	WEIS										
	1016	2308	SGMR										
	1230	2400	BOUL										
	1302	2245	HARV				1824	1825	2				IIIG
			HARV				2056		3				IIIB
	2146	2400	MANI										
06	0000	1005	MANI										
	0000	0130	BOUL										
	0520	1744	DURN										
	1017	2306	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	2146	2400	MANI										
07	0000	1004	MANI										
	0000	0130	BOUL										
	0520	1157	DURN										
	1018	2304	SGMR										
	1238	2400	BOUL										
	1301	2245	HARV										
	1449	1743	DURN										
	2146	2400	MANI										
08	0000	0840	MANI										
	0000	0130	BOUL										
	0520	0915	DURN										
	0745	1721	WEIS										
	0933	1741	DURN										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1975

SEP 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
08	1019	2302	SGMR										
	1230	2400	BOUL										
	1302	2245	HARV										
	2146	2400	MANI										
09	0000	1002	MANI										
	0000	0130	BOUL										
	0521	1740	DURN										
	0540	1415	WEIS										
	1020	2300	SGMR										
	1230	2400	BOUL										
	1300	2245	HARV										
	1430	1706	WEIS										
	2146	2400	MANI										
10	0000	1001	MANI										
	0000	0130	BOUL										
	0522	1737	DURN										
	0540	1707	WEIS										
	1021	2259	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	2146	2400	MANI										
11	0000	1001	MANI										
	0000	0130	BOUL										
	0523	1735	DURN										
	0542	1102	WEIS										
	1022	2257	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	1330	1708	WEIS										
	2146	2400	MANI										
12	0000	0523	MANI										
	0000	0130	BOUL										
	0523	0607	DURN										
	0600	0636	MANI										
	0617	1733	DURN										
	0640	1708	WEIS										
	0645	1001	MANI										
	1023	2255	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	2146	2400	MANI										
13	0000	1000	MANI										
	0000	0130	BOUL										
	0523	1732	DURN										
	0548	0950	WEIS										
	1024	2254	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	2146	2400	MANI										
14	0000	1000	MANI										
	0000	0130	BOUL										
	0524	1731	DURN										
	1025	2252	SGMR										
	1230	2400	BOUL										
	1301	2245	HARV										
	2147	2400	MANI										
15	0000	0959	MANI										
	0000	0130	BOUL										
	0526	1729	DURN										
	0650	1655	WEIS										
	1026	2250	SGMR										
	1230	2400	BOUL										
	1447	2245	HARV										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1975

SEP 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
15	2147	2400	MANI										
16	0000	0595	MANI										
	0000	0130	BOUL										
	0527	1334	DURN										
	0546	1532	WEIS										
	1027	2248	SGMR										
	1238	2400	BOUL										
	1316	2245	HARV										
	1537	1652	WEIS										
	2148	2400	MANI										
17	0000	0959	MANI										
	0008	0138	BOUL										
	0547	1657	WEIS										
	0638	1724	DURN										
	1029	2247	SGMR										
	1230	2400	BOUL										
	1317	2245	HARV										
	2148	2400	MANI										
18	0000	0959	MANI										
	0000	0100	BOUL										
	0550	1312	WEIS										
	1030	2245	SGMR										
	0534	1724	DURN	1158.3	1158.5	2							IIIG,RS
	1300	2400	BOUL										
	1315	2245	HARV										
			DURN	1356.4	1357.3	3	1356.5	1356.6	2				IIIG
	1320	1652	WEIS				1356.5	1356.7	1				IIIG
			DURN	1357.4	1358.4	2							DCIM,C
	2148	2400	MANI										
19	0000	0958	MANI										
	0000	0100	BOUL										
	0535	1722	DURN										
	0549	1651	WEIS										
	1031	2243	SGMR										
	1316	2245	HARV										
	1500	2400	BOUL										
	2148	2400	MANI										
20	0000	0955	MANI										
	0000	0100	BOUL										
	0535	1447	DURN										
	0553	1026	WEIS										
	1032	2241	SGMR										
	1048	1647	WEIS										
	1230	2400	BOUL										
	1316	2245	HARV										
	2148	2400	MANI										
21	0000	0955	MANI										
	0000	0100	BOUL										
	0557	1649	WEIS										
	1033	2239	SGMR										
	1230	2400	BOUL										
	1316	2245	HARV										
	2148	2400	MANI										
22	0000	0953	MANI										
	0000	0100	BOUL										
	0534	1716	DURN										
	0559	0843	WEIS										
	0852	1642	WEIS	0941.2	0941.3	2							IIIB
	1034	2236	SGMR										
	1230	2400	BOUL										
	1316	2245	HARV										
	2148	2400	MANI										
23	0000	0953	MANI										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

SEPTEMBER 1975

SEP 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
23	0000	0130	BOUL										
	0534	1714	DURN										
	0602	1644	WEIS										
	1035	2236	SGMR										
	1230	2400	BOUL										
	1317	2245	HARV										
	2148	2400	MANI										
24	0000	0953	MANI										
	0000	0100	BOUL										
	0535	1711	DURN										
	0604	0713	WEIS										
	1036	2234	SGMR										
	1308	2400	BOUL										
	1316	2245	HARV										
	2148	2400	MANI										
25	0000	0951	MANI										
	0000	0100	BOUL										
	0537	0844	DURN										
	0650	1637	WEIS										
	1037	2232	SGMR										
	1105	1657	DURN										
	1308	2400	BOUL										
	1317	2245	HARV										
	2148	2400	MANI										
26	0000	0949	MANI										
	0000	0100	BOUL										
	0605	0703	DURN										
	0605	1620	WEIS										
	1038	2230	SGMR										
	1300	2400	BOUL										
	1316	2245	HARV										
	2147	2400	MANI										
27	0000	0948	MANI										
	0000	0100	BOUL										
	1039	2229	SGMR										
	1143	1654	DURN										
	1300	2400	BOUL										
	1318	2245	HARV										
	2147	2400	MANI										
28	0000	0502	MANI										
	0000	0100	BOUL										
	0602	1255	DURN										
	0800	0947	MANI										
	1040	2227	SGMR										
	1300	2400	BOUL										
	1317	2245	HARV										
	1439	1653	DURN										
	2147	2400	MANI										
29	0000	0115	MANI										
	0000	0100	BOUL										
	0200	0943	MANI										
	0602	1654	DURN										
	0655	1635	WEIS										
	1042	2225	SGMR										
	1300	2400	BOUL										
	1316	2245	HARV										
	2146	2400	MANI										
30	0000	0942	MANI										
	0000	0100	BOUL										
	0603	1655	DURN										
	0604	1605	WEIS										
	1043	2223	SGMR										
	1300	2400	BOUL										
	1317	2245	HARV										
	2145	2400	MANI										

COSMIC RAY INDICES

(Neutron Monitors)

SEPTEMBER 1975

	THULE	ALERT	DEEP RIVER	CALGARY	SULPHUR MT	KIEL	CLIMAX	TOKYO
SEPT. 1975	Average cts/hr	Average cts/hr	Average cts/hr	Average cts/hr	Average cts/hr	Average cts/hr	Average cts/hr	Average cts/hr
1	4607.5	7549.2	7063.4	11850.6	9055.5	6352.9	-- (0)	3562.9
2	4591.9	7542.8	7045.0	11805.7	9022.0	6336.8	-- (0)	3562.4
3	4577.6	7520.9	7041.2	11786.6	8997.3	6346.1	-- (0)	3557.7
4	4578.0	7534.3	7057.1	11816.2	9024.9	6360.3	4248.6(30)	3562.5
5	4609.8	7568.2	7086.2	11913.5	9046.4	6391.1	4263.4(28)	3560.5
6	4588.4	7540.5	7106.0	11896.2	9076.8	6393.2	4283.9(26)	3569.1
7	4588.5	7584.5	7081.9	11886.4	9059.8	6379.9	4266.4(20)	3564.2
8	4561.4	7520.0	7075.9	11859.2	9067.2	6366.7	4274.3(14)	3567.8
9	4527.9	7488.1	7053.3	11806.9	9007.7	6355.5	4248.9(28)	3548.8
10	4528.8	7487.2	7034.0	11750.2	8983.9	6343.0	4250.5(28)	3540.4
11	4514.8	7474.8	7010.3	11778.8	8995.6	6341.0	4249.4(28)	3532.9
12	4507.0	7464.0	7013.4	11783.9	8975.4	6351.8	4238.3(30)	3532.8
13	4511.9	7492.0	7035.0	11808.5	8995.9	6362.3	4236.6(32)	3536.6
14	4520.8	7502.0	7034.1	11786.8	9003.0	6356.0	4247.8(26)	3542.2
15	4532.3	7510.5	7023.2	11789.9	9002.8	6324.9	4231.8(32)	3541.7
16	4534.8	7503.8	7040.7	11813.1	9037.8	6313.0	4241.4	3547.5
17	4543.2	7515.4	7050.4	11711.9	9011.2	6309.4	4244.7	3548.2
18	4527.5	7495.1	7014.3	11706.3	8974.9	6309.2	4240.9	3536.1
19	4488.3	7439.7	6955.3	11669.0	8933.1	6259.7	4209.9	3530.7
20	4488.6	7426.4	6978.7	11686.0	8927.8	6285.4	4217.0	3534.5
21	4498.7	7444.0	7000.9	11719.4	8942.7	6280.5	4220.6	3537.3
22	4503.0	7454.2	6995.0	11721.5	8948.4	6287.0	4208.2	3530.3
23	4503.2	7456.1	6996.5	11760.1	8970.4	6296.0	4213.1	3535.0
24	4527.0	7480.9	7016.5	11760.7	8996.4	6323.7	4231.1	3539.0
25	4559.1	7521.5	7030.0	11800.9	9019.2	6350.5	4234.7	3546.4
26	4566.8	7521.3	7030.6	11824.4	9036.8	6363.7	4254.4	3551.8
27	4540.4	7480.3	7016.9	11790.9	8999.1	6337.0	4261.3	3540.7
28	4550.3	7492.8	7026.8	11767.0	8986.2	6309.6	4242.5	3540.9
29	4560.7	7484.5	7029.7	11779.8	8998.4	6305.1	4243.5	3537.1
30	4566.7	-- (0)	7043.5	11822.4	9023.3	6320.0	4251.8	3545.7
MEAN	4543.5	7499.8	7032.8	11788.4	9004.0	6333.7	4242.8	3546.1

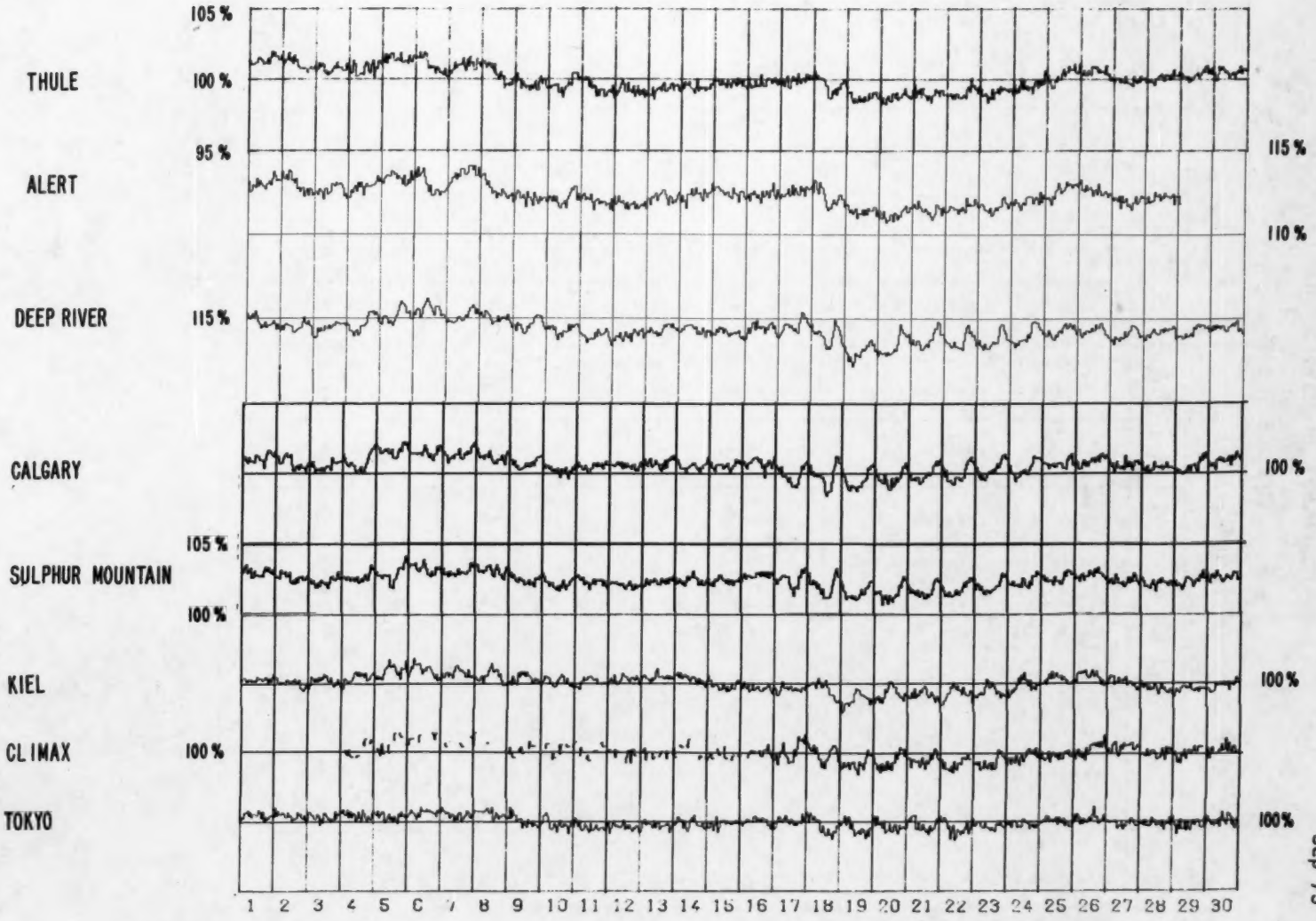
( ) Number of hours for which data are available if less than 24. Number of Section Hours at Climax if sum of both sections is less than 40 hours.

Thule, Alert, Calgary, Sulphur Mountain, Kiel and Climax Scaling Factors = 100.
Deep River Scaling Factor = 300.
Tokyo Scaling Factor = 128.

COSMIC RAY INDICES

(Neutron Monitors)

SEPTEMBER 1975



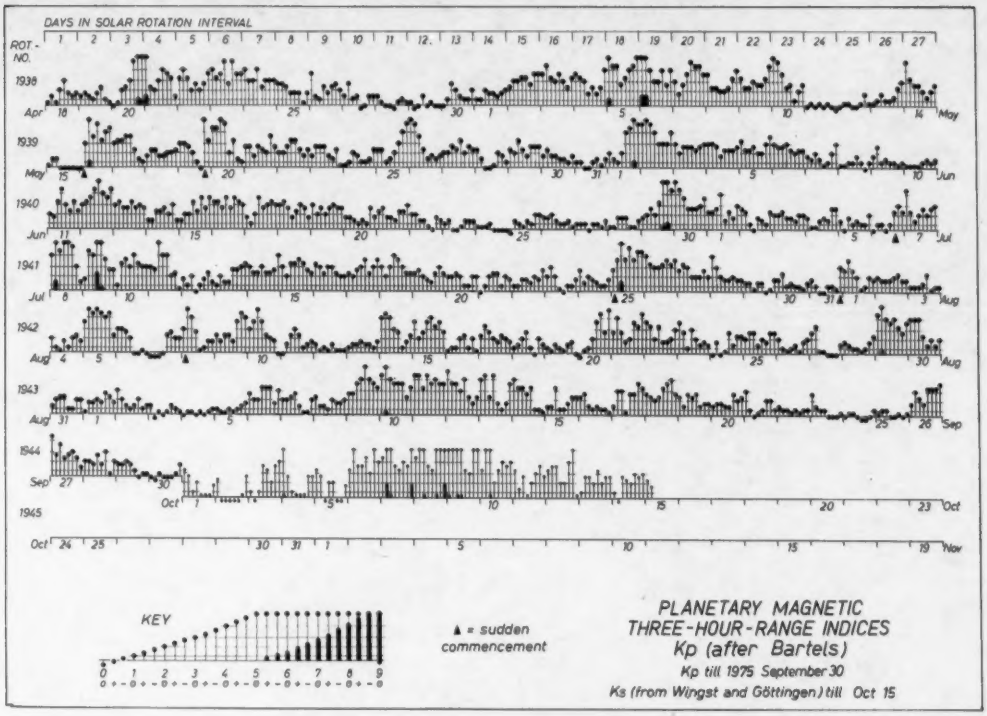
97
Sep 75

GEOMAGNETIC ACTIVITY INDICES

SEPTEMBER 1975

Day	Three-Hour Range Indices Kp								Sum	Cp	Ap	aa				
	1	2	3	4	5	6	7	8				N	S	M		
1	1-	2-	2-	2	2-	3-	2+	2-	14+	0.3	7	17	15	13	20	
2	3	2	1+	1	1+	2	1	1+	13	0.3	6	13	12	15	10	CK
3QQ	1+	0	1-	0+	1-	1+	1	1-	6	0.1	3	9	6	6	9	CC
4QQ	0+	1-	1-	0+	1-	0+	1-	1	5-	0.0	3	7	6	7	6	CC
5 Q	1	1-	1-	1	1-	1	1+	2-	8	0.1	4	8	7	6	9	CK
6	3-	2	2	3+	3+	3+	2-	3	21+	0.7	13	28	23	25	26	
7	2	2	2+	3-	1+	1-	1-	2	14-	0.3	7	14	9	16	8	C
8	2+	1+	1+	1	2	2-	2-	2	13+	0.3	6	15	8	9	15	C
9 D	3-	3-	4-	4	5	4	4-	3+	29	1.1	24	35	40	27	48	
10 D	4+	5+	4	4-	4-	4-	2+	3+	30+	1.2	26	37	42	43	36	
11 D	4+	4+	3+	4+	4-	4	4-	4-	31+	1.2	26	48	37	45	40	
12 D	5-	4-	4-	3	4	2+	2-	2+	25+	1.0	19	30	30	34	26	
13 D	4	4+	2+	4+	2-	1	2-	4-	23	0.9	17	33	21	36	18	
14	4	3+	3+	3-	3+	1	1	1-	19+	0.7	13	20	25	30	15	
15	1+	1+	3+	1	1	2-	2+	2+	14+	0.4	8	16	15	14	18	K
16 Q	2+	3-	1+	1	1+	1	1	1-	11+	0.3	6	10	6	8	9	CK
17	1+	3	3	1-	3-	3-	4-	3+	20+	0.7	13	26	23	19	31	
18	3-	2+	2	2+	3+	4-	4	3-	23	0.8	14	24	23	13	34	
19	2+	1+	3-	2+	3-	1+	2-	2-	16	0.4	8	15	15	15	16	
20	1+	2-	2-	1+	1+	3-	2	2+	14+	0.3	7	17	12	10	18	
21	3	1	0+	1-	1	2	2	1	11	0.3	6	12	10	11	12	CK
22 Q	1+	1	1	1-	1	1-	1	1	8-	0.1	4	9	7	9	7	CC
23 Q	3-	1+	1	1	0+	0+	0+	1-	8-	0.1	4	10	7	13	5	CC
24QQ	0+	1-	1-	0+	0	0	0+	1	3+	0.0	2	7	4	5	7	CC
25QQ	1-	1	1	0+	0+	1-	0+	1-	5	0.1	3	6	4	4	6	CC
26	2-	3	2+	2-	3+	3+	3+	4-	22+	0.8	14	32	23	14	37	
27	4+	3-	4-	2+	3-	3	2+	1+	22+	0.8	14	21	27	25	24	
28	2	2	2-	3-	2-	3	1-	2	16-	0.4	8	20	19	20	20	
29 Q	2-	2-	2	2-	1	0+	1-	1-	10-	0.2	5	10	9	11	8	CK
30QQ	0+	0	1-	0+	0+	0+	1-	2-	4+	0.0	2	6	5	5	6	CK
									MEAN	0.46	10	18.5	16.2	17.5		

GEOMAGNETIC ACTIVITY INDICES



DAILY AVERAGE INDICES Ap

	1974			1975								
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	6	6	7	37	21	7	6	24	12	9	7
2	30	5	15	4	23	10	5	16	28	6	7	6
3	12	6	15	7	12	11	6	19	12	7	5	3
4	8	3	9	32	10	9	7	14	11	6	6	3
5	10	5	7	27	17	30	10	34	12	5	29	4
6	11	10	4	26	9	20	15	35	11	6	7	13
7	6	7	8	44	15	3	25	22	6	12	5	7
8	10	21	13	36	8	2	32	14	4	37	14	6
9	39	39	42	7	11	8	52	16	5	35	15	24
10	10	10	20	6	38	80	35	19	4	17	15	20
11	6	48	21	4	36	53	34	2	14	18	7	26
12	17	70	18	4	35	37	27	3	27	5	4	19
13	86	36	22	32	27	29	29	6	14	10	5	17
14	30	38	13	33	25	29	21	14	8	13	16	13
15	50	10	14	15	21	20	7	3	13	15	18	9
16	68	16	8	21	30	27	6	28	17	12	5	6
17	47	14	18	29	14	13	5	14	12	14	9	13
18	43	5	28	22	15	17	6	7	12	15	6	14
19	29	14	27	10	11	11	5	15	12	9	4	8
20	41	22	21	10	8	14	25	23	6	6	15	7
21	10	24	19	6	8	3	23	12	9	6	17	6
22	15	18	14	8	7	6	15	11	5	6	12	4
23	5	16	17	12	32	13	25	9	4	6	10	4
24	38	26	14	10	17	14	17	5	3	6	6	2
25	22	19	12	5	20	8	8	14	4	33	9	3
26	28	17	12	5	6	17	9	13	5	19	5	14
27	25	9	21	14	5	34	5	10	4	11	6	14
28	29	6	12	12	12	38	3	5	4	10	5	8
29	18	3	11	6		22	2	11	26	4	27	5
30	12	2	6	7		10	6	6	22	5	14	2
31	8		14	16		13		4		5	6	
MEAN	26	15	15	16	18	20	16	13	11	12	10	10

HOURLY EQUATORIAL Dst VALUES (PROVISIONAL)

SEPTEMBER 1975

NASA/GODDARD SPACE FLIGHT CENTER

(Time-UT)

(Units-Gammas)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	3	2	1	0	-4	-10	-10	-5	-3	-8	-7	-9	-9	-9	-10	-12	-12	-8	-7	-12	-12	-12	-10	-13
2	-16	-19	-9	-2	-2	-1	2	3	-2	-1	1	3	3	3	3	1	-5	-7	-10	-11	-13	-12	-12	-11
3	-8	-8	-10	-8	-6	-6	-4	-3	-3	-1	-1	-2	1	1	2	3	1	-2	-3	-3	-1	-3	-4	-4
4	2	3	4	4	2	-2	-6	-6	-5	-4	-2	-2	-3	-5	-7	-9	-8	-8	-8	-7	-8	-6	-5	-5
5	-4	-4	1	1	2	0	-2	0	2	2	1	1	-1	-1	-4	-4	0	4	4	3	4	8	11	10
6	10	8	6	5	9	11	8	3	6	11	13	2	-14	-26	-27	-29	-31	-21	-20	-26	-30	-33	-32	-31
7	-23	-17	-16	-16	-14	-13	-10	-9	-7	-10	-11	-11	-12	-14	-16	-16	-15	-13	-10	-11	-13	-13	-12	-12
8	-13	-16	-16	-14	-11	-13	-12	-7	-7	-9	-11	-12	-14	-11	-11	-12	-9	-7	-7	-6	-7	-15	-14	-16
9	-15	-12	-14	-18	-16	-15	-19	-18	-18	-23	-25	-21	-19	-22	-30	-31	-23	-20	-20	-18	-19	-21	-17	-16
10	-16	-28	-40	-45	-41	-35	-36	-29	-24	-24	-25	-24	-24	-21	-29	-28	-23	-21	-24	-25	-24	-28	-29	-29
11	-34	-33	-26	-26	-29	-30	-26	-21	-20	-22	-18	-15	-21	-21	-20	-22	-18	-20	-22	-23	-21	-19	-15	-15
12	-24	-26	-24	-22	-28	-29	-21	-18	-17	-19	-20	-20	-18	-14	-16	-18	-13	-8	-7	-7	-14	-20	-21	-20
13	-21	-25	-28	-26	-23	-22	-19	-14	-15	-15	-20	-18	-15	-15	-17	-20	-17	-13	-11	-9	-7	-16	-18	-13
14	-14	-17	-19	-19	-22	-22	-21	-15	-17	-15	-9	-9	-18	-22	-19	-17	-15	-16	-16	-17	-16	-13	-9	-6
15	-5	-7	-6	-6	-3	-3	-5	-7	-6	-4	-3	-4	-5	-3	-6	-7	-9	-10	-10	-13	-16	-15	-13	-10
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17	8	9	12	11	1	-10	-2	1	7	7	9	10	6	6	5	0	0	-4	-8	-10	-11	-14	-12	-10
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22	-7	-8	-8	-4	-1	-1	-1	0	2	3	1	3	3	3	2	1	4	5	5	4	2	3	2	1
23	2	-2	-3	-1	3	2	1	2	2	1	1	2	2	4	5	4	4	5	4	3	3	4	3	4
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26	11	14	14	9	7	7	11	10	6	7	11	12	7	2	-11	-21	-19	-13	-10	-11	-17	-22	-24	-20
27	-10	-15	-19	-21	-24	-26	-28	-28	-24	-21	-23	-24	-22	-14	-21	-24	-25	-24	-23	-21	-16	-13	-11	-10
28	-11	-14	-13	-14	-12	-9	-5	-3	-5	-10	-11	-6	-2	5	6	-3	-5	-3	-2	-6	-8	-10	-9	-11
29	-10	-11	-10	-10	-8	-5	-7	-3	-7	-7	-7	-3	-3	-1	-2	-4	-3	-1	-1	-3	-7	-7	-5	-4
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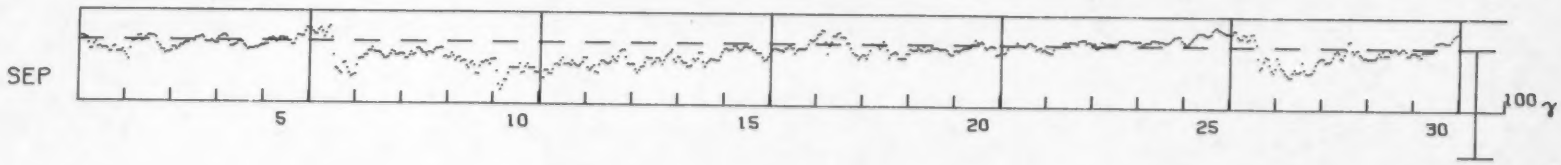


PRINCIPAL MAGNETIC STORMS

SEPTEMBER 1975

OBS. 2 letter IAGA code	GEOMAG-NETIC LATI-TUDE	COMMENCEMENT DAY	hr min (UT)	TYPE	SC - AMPLITUDES D(')	H(γ)	Z(γ)	MAXIMUM 3 HOUR - INDEX K DAY(3 HOUR PERIOD)	K	RANGES D(')	H(γ)	Z(γ)	UT END DAY	HOUR
AL	09.5N	6	07--	..	..	..	..	06(5,6)	5	5	112	34	06	18
HD	07.6N	6	0000	..	..	..	..	06(5,6)	5	7	123	31	07	15
AN	01.5N	6	07--	..	..	..	..	--	-	5	149	56	06	18
TV	01.1S	6	07--	..	..	..	..	--	-	3	197	45	06	18
HD	07.6N	8	1200	..	..	..	..	09(6)	5	5	104	30	12	16
CO	64.6N	9	01--	..	..	..	..	09(5) 11(4) 12(5)	7	230	1860	688	12	16
SI	60.0N	9	0720	SC	+ 3.7	0	- 4.4	11(4)	6	60	600	560	12	16
NE	55.1N	9	00--	..	..	..	..	10(2)	6	43	103	198	14	14
BD	48.9N	9	02--	..	..	..	..	10(2)	6	30	90	59	14	18
GN	43.2S	9	04--	..	..	..	..	09(5,6) 10(5) 11(4)	5	18	80	110	11	18
KG	56.5S	9	06--	..	..	..	..	10(1,2)	5	--	--	--	13	06
KG	56.5S	13	21--	SC	..	..	..	13(8) 14(1,2)	4	--	--	--	14	15
HD	07.6N	17	0401	SC	- 0.4	+17	- 2	17(2)	4	6	77	32	18	22
AL	09.5N	26	08--	..	..	..	..	26(5)	5	2	101	21	26	20
HD	07.6N	26	0330	..	..	..	..	26(5,6)	5	4	115	26	28	20
GU	04.0N	26	1015	..	..	..	..	26(5)	5	0	60	10	27	17
AN	01.5N	26	08--	..	..	..	..	--	-	2	109	41	26	20
TV	01.1S	26	08--	..	..	..	..	--	-	1	137	41	26	20
PM	18.7S	26	04--	..	..	..	..	27(5)	5	4	110	30	28	18

Reports were received from the following observatories:

College Witteveen Tucson Honolulu Guam Huancayo Apia Hermanus Toolangi
Sitka Fredericksburg San Juan Alibag Annamalainagar Trivandrum Port Moresby Gnangara Port-aux-Francais
Newport Boulder M'Bour Hyderabad

SUDDEN COMMENCEMENTS AND SOLAR FLARE EFFECTS

SEPTEMBER 1975

PRELIMINARY REPORT ON RAPID MAGNETIC VARIATIONS (by Dr. A. Romana)

The meaning of the station symbols is given in the IAGA-Bulletins nr. 12 and 32. Times of ssc and si are mean values. If given by ten or more stations they are underlined.

Sudden commencements followed by a magnetic storm or a period of storminess (ssc)

n o n e

Sudden impulses found in the magnetograms (si)

n o n e

Solar-flare effects (sfe)

Effects confirmed by ionospheric or solar observations are underlined.

12	1229 - 1241	SZ		20	1408 - 1418	SZ	
13	0806 - 0813	SZ		28	1331 - 1347	SZ	
19	0917 - 0924	SZ		28	1610 - 1621	LG	SZ
19	1830 - 1838	LG					

RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

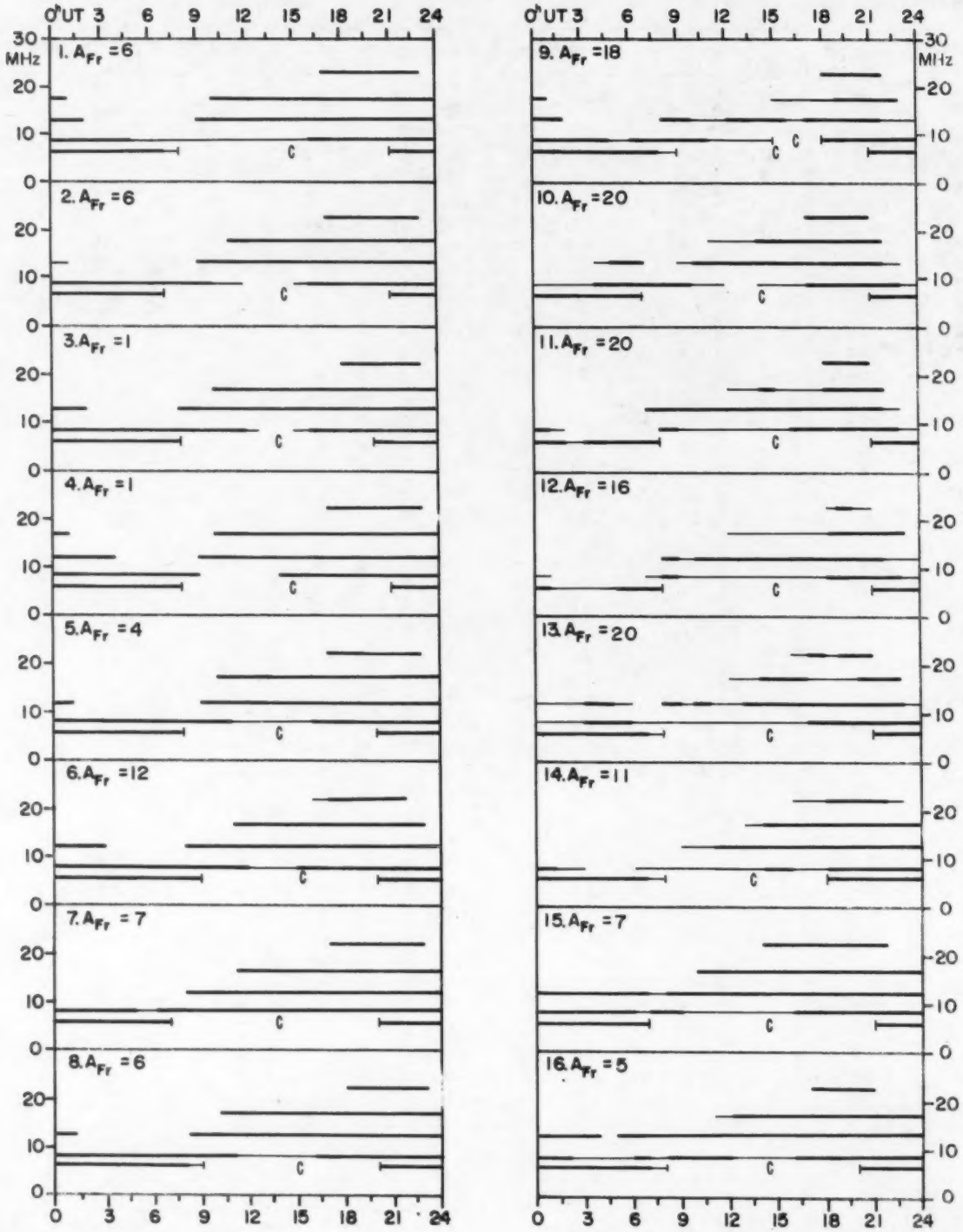
SEPTEMBER 1975

North Atlantic

SEP 1975	WHOLE DAY INDICES NORTH ATLANTIC	ADVANCE FORECASTS (JC-REPORTS) FOR WHOLE DAY	NORTH ATLANTIC 6-HOURLY QUALITY FIGURES 00 TO 06	06 TO 12	12 TO 18	18 TO 24	SHORT-TERM FORECASTS ISSUED ABOUT ONE HOUR IN ADVANCE OF 02	08	14	20	GEOMAGNETIC INDICES K_{FR} HALF DAY (1)	(2)	A_{FR} OBSERVED
01	6o	6	6-	6o	6-	6+	6	6	6	6	2	2	6
02	6+	5	6+	6o	7-	7-	6	6	6	6	2	1	6
03	7-	5	7-	7-	7o	7o	6	6	6	7	0	0	1
04	6+	6	6+	6o	7-	7-	7	6	6	7	1	0	1
05	6+	5	6o	6o	7-	7-	7	7	6	7	2	1	4
06	6+	5	6o	6o	6+	6+	7	6	6	6	3	3	12
07	6o	6	6o	6o	6+	6+	6	6	6	6	2	1	7
08	6o	6	6o	6-	6+	7-	6	6	6	7	2	2	6
09	6-	6	7-	5o	6o	6-	6	6	6	5	3	3	18
10	5o	5	5+	4+	6-	5+	5	4	5	5	(4)	2	20
11	5o	5	4+	5o	5+	6-	5	5	5	6	(4)	3	21
12	5o	5	5o	4+	5+	5+	5	5	5	6	(4)	2	19
13	5+	6	5o	5o	6o	5+	5	5	6	6	(4)	2	21
14	6-	6	5+	6-	6o	6o	5	5	5	6	(4)	2	15
15	6+	7	6-	6o	7-	7o	5	5	6	6	2	2	7
16	6-	7	6o	6-	5+	6o	6	6	6	6	2	1	5
17	6+	6	6o	6-	7-	7-	6	5	6	6	2	3	10
18	6o	6	6o	6-	6+	6o	6	6	6	6	2	3	10
19	6+	6	6o	6o	7o	6+	6	6	5	6	2	2	7
20	6+	6	6-	6o	7-	6+	6	6	6	6	1	2	5
21	7-	6	6o	7-	7o	7o	6	6	6	6	2	2	6
22	6+	6	7-	6+	6+	7-	6	6	6	7	1	1	3
23	7-	6	7-	6o	7-	7-	6	6	6	7	1	0	2
24	6+	6	7-	6-	7-	6o	7	7	6	7	1	1	2
25	6o	5	6-	6-	7-	6-	6	6	6	6	1	0	3
26	6o	5	5+	6o	7-	6+	6	6	6	6	2	2	10
27	6-	5	6-	6-	6o	6o	5	5	6	6	(4)	2	15
28	6-	6	6-	6-	7-	6o	5	5	6	5	2	1	6
29	6+	6	6-	6-	7-	7o	5	5	6	6	2	1	5
30	6+	7	6+	5+	7-	7-	6	6	6	6	1	1	2

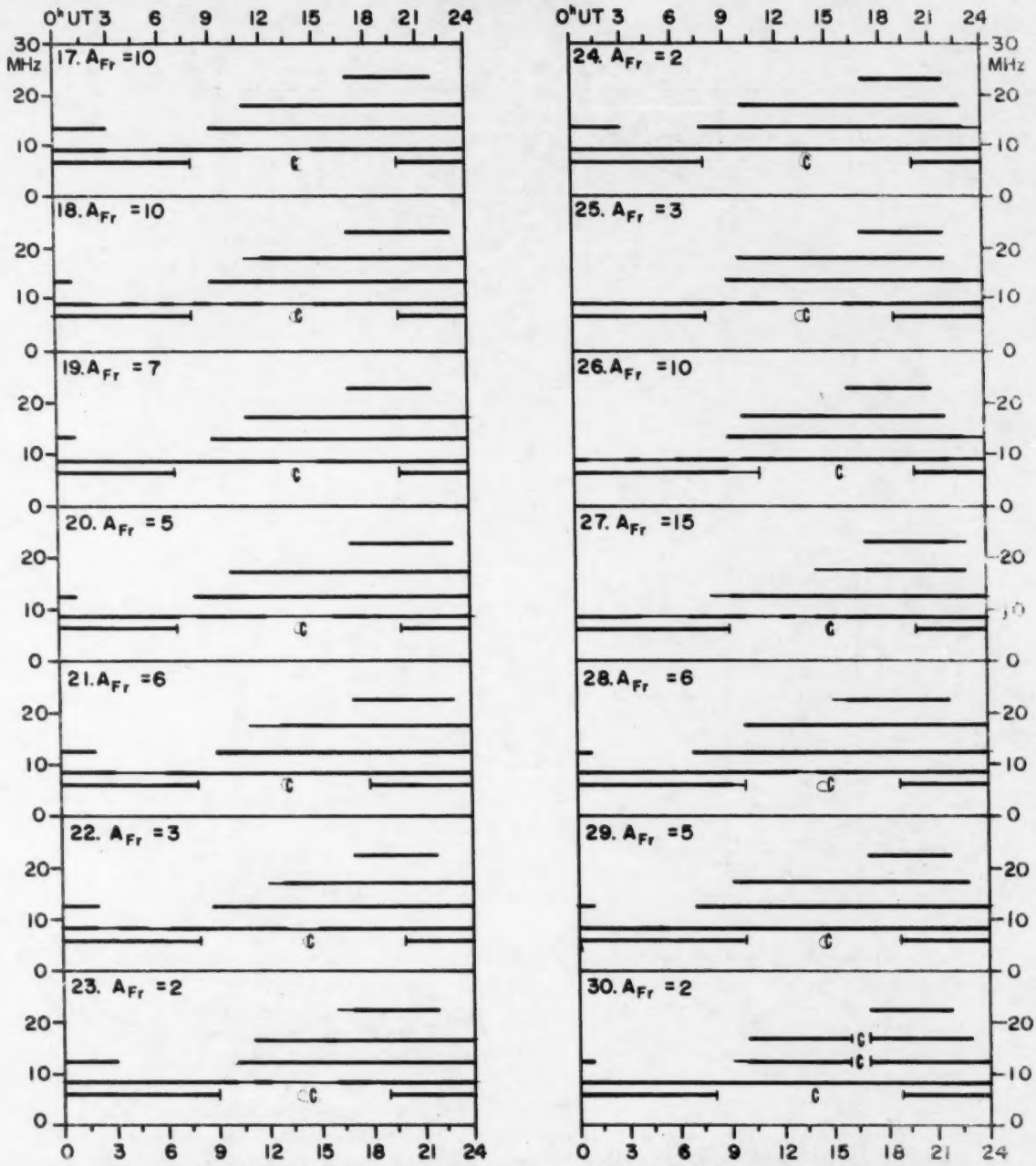
TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

SEPTEMBER 1975



TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

SEPTEMBER 1975



Field strengths from five frequencies, 6.425, 8.542, 12.813, 17.084 and 22.378 MHz, observed on a Lüchow - Halifax circuit are represented above. Heavy solid lines represent field strengths ≥-12 dB above 1 μv/m (transmitter power reduced to 1 kW). Observed field strengths between -12 dB above 1 μv/m and -40 dB above 1 μv/m are represented by the fine line.

Adapted from Observations by Deutsche Bundespost

RADIO PROPAGATION QUALITY INDICES

SEPTEMBER 1975

Quality Indices calculated for reception at Lüchow

	TOKYO	HALIFAX	MAURITIUS	CANBERRA	BRACKNEL
1	8.1	8.3	6.9	6.6	13.5
2	8.1	8.7	7.0	6.9	14.1
3	8.5	9.1	7.0	6.7	13.4
4	8.9	9.7	6.8	6.1	12.7
5	9.1	10.3	6.2	6.2	13.9
6	7.9	9.1	7.0	5.9	13.8
7	7.4	9.5	7.0	5.9	13.7
8	8.3	8.8	4.9	6.2	13.6
9	7.4	5.7	5.6	5.9	13.5
10	6.6	5.6	5.9	5.6	13.3
11	6.6	5.3	5.2	5.0	12.8
12	7.8	5.9	5.9	5.1	12.7
13	7.2	5.9	5.7	4.9	12.9
14	7.9	6.1	5.8	5.1	12.8
15	8.3	7.8	6.0	5.5	12.8
16	7.9	9.0	6.3	5.4	13.0
17	8.0	8.5	6.6	5.4	13.8
18	8.4	7.2	6.7	5.8	14.1
19	10.2	8.6	6.8	5.8	13.9
20	10.0	8.7	6.4	5.8	14.2
21	9.4	8.6	6.9	5.8	14.1
22	9.3	8.9	6.2	5.6	14.4
23	8.9	9.5	6.2	5.3	14.1
24	9.5	9.3	5.7	5.7	14.2
25	9.1	8.6	5.4	5.5	14.1
26	9.7	8.1	4.6	5.3	13.8
27	9.6	6.9	4.9	5.7	13.2
28	9.6	8.7	4.7	5.5	13.5
29	9.2	9.0	5.2	5.8	14.2
30	8.9	9.0	8.0	5.7	13.8
MEAN	8.5	8.1	6.1	5.7	13.6

The method of calculation of the radio propagation indices changed in July 1974. An absolute quality figure is calculated for a 24-hour period from Tokyo, Halifax, Mauritius (Africa) and Canberra. The figure 0.0 corresponds to a median field strength of -30 dB above 1μV/m (converted into 1 kW and referred to an omnidirectional antenna). The figures 1 to 10 are in steps of 5 dB with the figure 10.0 corresponding to a median field strength of +20 dB above 1μV/m. The field strength of the frequency with the highest value for each hour is used in place of a mean of all recorded frequencies. This is done on the assumption that the optimum frequency would be used for communication.

USCOMM-NOAA-ASHEVILLE,NC,-11-29-75-950

AMERICAN REVOLUTION BICENTENNIAL
1776-1976

November 1975 Number 375-Part II

Solar-Geophysical Data comprehensive reports

Data for May 1975–April 1975 & Miscellanea

Explanation of Data Reports Issued as Number 366 (Supplement) February 1975

NEW DATA PAGE 4

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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Thomas S. Austin, Director

Solar - Geophysical Data

NO. 375 NOVEMBER 1975

Part II (Comprehensive Reports)

DATA FOR
MAY 1975
APRIL 1975
& MISCELLANEA

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

For obtaining bulletins on a data exchange basis, send request to: World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, Colorado 80302.

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To standardize referencing these reports in the open literature, the following format is recommended:

Solar-Geophysical Data, 366 Part I (or Part II), pages, February 1975, U.S. Department of Commerce, (Boulder, Colorado, U.S.A. 80302)

SOLAR - GEOPHYSICAL DATA

No. 375

Issued in two parts

Hope I. Leighton, Editor

J. Virginia Lincoln, Director
Solar - Terrestrial Data Services Division

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A.3c	Kitt Peak Magnetograms	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	369A 26	370A 24	371A 24	372A 28	373A 34	374A 28	375A 24	
A.4	H_α Spectroheliograms	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	369A 26	370A 24	371A 24	372A 28	373A 34	374A 28	375A 24	
A.5	Calcium Plage Drawings - McMath (or Catania)	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	369A 26	370A 24	371A 24	372A 28	373A 34	374A 28	375A 24	
A.5a	Calcium Plage (McMath) and Sunspot Regions	362A 94	363A 88	364A 94	365A 86	366A 86	367A 86	368A 82	369A 88	370A 84	371A 86	372A 88	373A 96	374A 90	375A 84	
A.5b	McMath Daily Calcium Plage Index	362A102	363A 97	364A101	365A 92	366A 92	367A 93	368A 89	369A 93	370A 91	371A 92	372A 93	373A101	374A 95	375A 90	
A.6	H_α Synoptic Charts	362A 31	363A 27	364A 31	365A 24	366A 23	367A 23	368A 25	369A 25	370A 23	371A 23	372A 27	373A 33	374A 26	375A 23	
A.7b	Coronal Line Emission	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	369A 26	370A 24	371A 24	372A 28	373A 34	374A 28	375A 84	
A.8aa	2800 MHz - Daily Values of Solar Flux (ARO-Ottawa)	361A 7	362A 7	363A 7	364A 7	365A 7	366A 7	367A 7	368A 7	369A 7	370A 7	371A 7	372A 7	373A 7	374A 7	375A 7
A.8ac	2800 MHz - Daily Values of Adj. Solar Flux (ARO-Ottawa)	361A 7	362A 7	363A 7	364A 7	365A 7	366A 7	367A 7	368A 7	369A 7	370A 7	371A 7	372A 7	373A 7	374A 7	375A 7
A.8g	Daily Values of Adjusted Solar Flux (AFCRL)	361A 7	362A 7	363A 7	364A 7	365A 7	366A 7	367A 7	368A 7	369A 7	370A 7	371A 7	372A 7	373A 7	374A 7	375A 7
A.9cb	8.6 mm Radio Maps of the Sun (NELC - La Posta)	---	---	---	---	365A 26	366A 24	367A 24	368A 26	369A 26	370A 24	371A 24	372A 28	373A 34	374A 28	375A 24
A.9d	2 cm Radio Maps of the Sun (NELC - La Posta)	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	369A 26	370A 24	371A 24	372A 28	373A 34	374A 28	375A 24	
A.10a	169 MHz - Interferometric Observations (Nançay)	361A 13	362A 14	364A110	364A 13	365A 12	366A 12	367A 12	369A101	369A 12	370A 12	371A 12	372A 15	373A 15	374A 12	375A 12
A.10c	21 cm East-West Solar Scans (Fleurs)	361A 15	362A 16	363A 15	364A 15	365A 14	366A 14	367A 14	368A 14	369A 14	371A100	371A 14	372A 17	373A 17	374A 14	375A 14
A.10d	43 cm East-West Solar Scans (Fleurs)	361A 16	362A 17	363A 16	364A 16	365A 15	366A 15	367A 15	368A 15	369A 15	371A101	371A 15	372A 18	373A 18	374A 15	375A 15
A.10e	10.7 cm East-West Solar Scans (Ottawa-ARO)	361A 14	362A 15	363A 14	364A 14	365A 13	366A 13	367A 13	368A 13	369A 13	370A 13	371A 13	372A 16	373A 16	374A 13	375A 13
A.11e	Solar X-ray Spectroheliograms (OSO-5; 1969-6A)	362A 32	363A 28	364A 32	365A 26	367B 55	368B 50	369B 36	369A 26	371B 24	371A 24	373A 34				
A.11g	Solar X-ray (SMS GOES)	---	---	---	---	364A 21	365A 18	366A 18	367A 18	368A 18	369A 20	370A 18	---	---	373A 25	374A 20	375A 18
A.11h	Solar X-ray (OSO-8; 1975-057A)	---	---	---	---	---	---	---	---	---	---	---	---	---	374A 28	375A 24	
A.12ba	Cosmic Ray Protons (Pioneers 6 & 7)	361A 18	---	---	---	365A 17	---	---	---	---	369A 18	370A 16	371A 18	---	---	374A 18	---
A.12bb	Cosmic Ray Protons (Pioneers 8 & 9)	361A 19	362A 22	---	364A 19	---	---	---	---	---	369A 19	370A 17	371A 19	---	---	374A 19	---
A.12d	Solar Protons (NOAA 2, 3 & 4) Graphs	361A 20	362A 23	363A 22	364A 24	---	---	---	---	---	---	---	---	---	---	---	---
A.13a	Solar Wind (Pioneers 6 & 7)	361A 18	---	---	---	365A 17	---	---	---	---	369A 18	370A 16	371A 18	---	---	374A 18	---
A.13d	Solar Wind from IPS Measurements	---	---	---	---	---	366A 17	367A 17	368A 17	369A 17	370A 15	371A 17	372A 21	373A 24	374A 17	375A 17
A.17	Interplanetary Magnetic Field (Pioneer 8)	361A 19	362A 22	---	---	---	---	---	---	---	369A 19	370A 17	371A 19	---	---	374A 19	---
A.17	Interplanetary Magnetic Field (Pioneer 9)	361A 19	---	363A 21	364A 19	---	---	---	---	---	369A 19	---	371A 19	372A 22	---	374A 19	---
A.17c	Inferred IP Magnetic Field	361A 23	362A 26	363A 24	364A 27	365A 21	366A 20	367A 20	368A 21	369A 22	370A 20	371A 20	372A 24	373A 29	374A 23	375A 20
A.18	Interplanetary Electric Field (Pioneer 8)	361A 19	362A 22	---	---	---	---	---	---	---	369A 19	370A 17	371A 19	---	---	374A 19	---
A.18	Interplanetary Electric Field (Pioneer 9)	361A 19	---	363A 21	364A 19	---	---	---	---	---	369A 19	---	371A 19	372A 24	---	374A 19	---
B.	Ionospheric (and Radio Wave Propagation) Phenomena															
B.51ca	High Latitude Quality Figures and Forecasts	362A119	363A123	364A119	365A109	366A111	367A111	368A103	369A109	370A105	371A108	372A109	373A119	374A115	375A103	
B.52	Graphs of Transmission Frequency Range	362A120	363A124	364A120	365A110	366A112	367A112	368A104	369A110	370A106	371A109	372A110	373A120	374A116	375A104	
B.53	Quality Figures Based on Frequency Ranges	362A122	363A126	364A122	365A112	366A114	367A114	368A106	369A112	370A108	371A111	372A112	373A122	374A118	375A106	
C.	Flare-Associated Events															
C.1a	Optical Observations Flares	361A 10	362A 10	363A 10	364A 10	365A 10	366A 10	367A 10	368A 10	369A 10	370A 10	371A 10	372A 10	373A 10	374A 10	375A 10
C.1ba	Optical Observations Flares (Standardized Data)	366B 4	367B 4	368B 4	369B 4	370B 4	375B 26	375B 30	375B 35	375B 39	375B 6					
C.1d	Flare Patrol Observations	361A 12	362A 13	363A 13	364A 12	365A 11	366A 11	367A 11	368A 11	369A 11	370A 11	371A 11	372A 14	373A 14	374A 11	375A 11
C.1d	Flare Patrol Observations	366B 14	367B 20	368B 24	369B 14	370B 11	371B 6	372B 6	373B 6	374B 5	375B 10					
C.1e	Flare Indices (by day)	366B 13	367B 16	368B 20	369B 11	370B 8	371B 5	372B 5	375B 41	375B 41	375B 9					
C.1f	Flare Indices (by Region)	367B 52	368B 56	369B 34	370B 26	371B 22	372B 20	375B 41	375B 41	375B 24						
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	Solar Radio Waves - Fixed Frequencies - Selected	361A 17	362A 18	363A 17	364A 17	365A 16	366A 16	367A 16	368A 16	369A 16	370A 14	371A 16	372A 19	373A 19	374A 16	375A 16
C.3t	43.25, 80 and 160 MHz Selected Bursts (Culgoora)	362A111	363A115	365B106	365A101	366A100	367A103	368A 95	369A100	370A 97	371A 99	372A101	363A111	374A107		
C.4a	Solar Radio Spectral Obs. (Fort Davis)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	369A 95	370A 93	371A 94	372A 95	373A103	374A 99	375A 92	
C.4b	Solar Radio Spectral Obs. (Boulder)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	369A 95	370A 93	371A 94	372A 95	373A103	374A 99	375A 92	
C.4d	Solar Radio Spectral Obs. (Culgoora)	362A104	363A101	365B103	365A 94	366A 94	367A 96	368A 91	369A 95	370A 93	371A 94	372A 95	374B 19			
C.4e	Solar Radio Spectral Obs. (Weissenau)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	369A 95	370A 93	371A 94	372A 95	373A103	374A 99	375A 92	
C.4f	Solar Radio Spectral Obs. (Sagamore Hill)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	369A 95	370A 93	371A 94	372A 95	373A103	374A 99	375A 92	
C.4h	Solar Radio Spectral Obs. (Dwingeloo)	362A104			365A 94	366A 94	367A 96	368A 91	369A 95	---	---	372A 95	373A103	---	---	
C.4i	Solar Radio Spectral Obs. (Dürnten)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	369A 95	370A 93	371A 94	372A 95	373A103	374A 99	375A 92	
C.4j	Solar Radio Spectral Obs. (Manila)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	369A 95	370A 93	371A 94	372A 95	373A103	374A 99	375A 92	
C.5e	Solar X-ray (SMS GOES)				364A 23	365A 20	366A 18	367A 18	368A 18	369A 20	370A 18	---	372A 23	373A 27	374A 22	375A 18
C.6	Sudden Ionospheric Disturbances	362A103	363A 99	364A102	365A 93	366A 93	367A 95	368A 90	369A 94	370A 92	371A 93	372A 94	373A102	374A 96	375A 91	
D.	Geomagnetic and Magnetospheric Phenomena															
D.1a	Geomagnetic Indices Cl, Cp, Kp, Ap, aa - Selected Days	362A114	363A118	364A113	365A104	366A103	367A106	368A 98	369A104	370A100	371A104	372A104	373A114	374A110	374A 98	
D.1ba	27-Day Chart of Kp Indices	362A115	363A119	364A114	365A105	366A105	367A107	368A 99	369A105	370A101	371A105	372A105	373A115	374A111	374A 99	
D.1c	27-Day Chart of C9	366A107	366A107	366A107	366A107	366A107										
D.1d	Principal Magnetic Storms	362A117	363A121	364A116	365A107	366A109	367A109	368A101	369A107	370A103	371A106	372A107	373A117	374A113	374A101	
D.1e	Reduced Magnetograms	---	367B 40	368B 44	---	---	---	---	373B 10	---	---					
D.1f	Sudden Commencement and Solar Flare Effects	362A118	363A122	364A118	365A108	366A110	367A110	368A102	369A108	370A104	371A107	372A108	373A118	374A114	374A102	
D.1g	Equatorial Indices Dst	362A116	363A120	364A115	365A106	366A108	367A108	368A100	369A106	370A102	372B 24	372A106	373A116	374A112	374A100	
F.	Cosmic Rays															
F.1a	Cosmic Ray Neutron Counts (Deep River)	362A112	364B 42	364A111	365A102	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	373A112	374A108	375A 96	
F.1b	Cosmic Ray Neutron Counts (Climax)					366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	373A112	374A108	375A 96	
F.1e	Cosmic Ray Neutron Counts (Alert)	362A112	364B 42	364A111	365A102	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	373A112	374A108	375A 96	
F.1f	Cosmic Ray Neutron Counts (Calgary)	362A112	363A116	364A111	366B 32	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	374B 22	374A108	375A 96	
F.1g	Cosmic Ray Neutron Counts (Sulphur Mountain)	362A112	363A116	364A111	366B 32	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	374B 22	374A108	375A 96	
F.1h	Cosmic Ray Neutron Counts (Thule)	363B 47	363A116	364A111	365A102	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	373A112	374A108	375A 96	
F.1i	Cosmic Ray Neutron Counts (Kiel)	362A112	363A116	364A111	365A102	366A101	367A104	368A 96	370A102	370A 98	371A102	372A102	373A112	374A108	375A 96	
F.1j	Cosmic Ray Neutron Counts (Tokyo)	362A112	363A116	364A111	365A102	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	373A112	374A108	375A 96	
H.	Miscellaneous															
H.60	TUMOS Alert Decisions	361A 4	362A 4	363A 4	364A 4	365A 4	366A 4	367A 5	368A 4	369A 5	370A 5	371A 5	372A 4	373A 4	374A 4	375A 5
H.62	Abbreviated Calendar Record	367B 44	368B 48	369B 25	370B 17	371B 13	372B 11	373B 15	374B 8	375B 16						

Note: A = Part I, B = Part II.
362A 32 listed under 1974 Aug shows that data for August 1974 were contained in "Solar-Geophysical Data" Number 362 - Part I beginning on page 32.

MAY 1975 DATA

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Hα SOLAR FLARES

Since January 1968 the flare reports published six months after observation have been divided into two tables labeled "confirmed" and "unconfirmed". This separation was felt desirable in 1968 to present the most homogeneous and reliable flare data for use by the scientific community. However, it has become apparent that for small events, which currently constitute the majority of reports, such discrimination is questionable. Therefore, beginning with the January 1975 data, all reported Hα flares are published in one chronological list.

The listing is prepared in cooperation with DASOP (Department d' Astronomie Solaire et Planétaire), Observatoire de Paris, 92190 Meudon, France. For each event there is a group report line more closely resembling the presentation of the flares as they will be published in the "IAU Quarterly Bulletin on Solar Activity" (QBSA). In *Solar-Geophysical Data* the flares as reported by the individual observatories follow the "group report" line. In QBSA only the summary of the observatory contributions is included.

The group report line is intended as a summary of all individual reports. The principal criteria for grouping reports together are flare position and times. The following new rules have been adopted to determine times, areas and importances of grouped events:

-- The beginning time is the time of first observation of an event by an observatory. If there is uncertainty in the beginning time, it is indicated by a "+" sign followed by the difference in minutes between the time of the first observation and the time of the latest observed beginning. More than 9 minutes difference appears as >9. The same applies for times of maximum. When two or more maxima are identified, their times are reported with the same group line.

-- With near agreement among observatories an average of the areas is used in determining importance.

-- With widely varying areas among several observatories the average area is not computed. The importance is estimated from the reported importances. An importance 1 or more is assigned only when reported by several observers or when only a single observatory is operating at the time of observing such a flare.

-- If only one or two observers report a flare of importance 1 or more with considerable disagreement in importance, no importance is assigned and a "?" is inserted in the importance column.

-- Queries are sent to observatories who have reported cinematographic observation at a time when only one or two observatories have reported an event of importance 1 or greater. Any new information thus obtained is included in the flare listing.

The columns in the table are as follows:

-- Group Number and Reporting Observatories using IAU abbreviation (see table on page 11 of February 1975 *Explanation of Data Reports*).
-- The Universal date.
-- Beginning time in UT.
-- Time of maximum phase in UT. (more than one maxima may be listed)
-- Ending time in UT.
-- The heliographic coordinates in degrees for the "center of gravity" of the emission region, corresponding to the time of maximum intensity.
-- The distance from the center of disk in units of disk radius.
-- McMath serial number of the associated plage region.
-- The time of central meridian passage of the position of the flare in tenths of the Universal date.
-- Duration in minutes.
-- The flare importance on the IAU scale of Sf* to 4b. (In the summary line for the group a "?" will be used when there has been too much discrepancy among individual reports to determine accurately the probable importance of the event).
-- Observing conditions where 1 means poor, 2 fair, and 3 good. (Observatories at Ramey, Palehua, Athenes and Tehran use a scale of 1-5).
-- Nature and completeness of available observations where -

C = a complete, or quasi complete sequence of photographs was obtained,
P = one or a few photographs of the event were obtained resulting in incomplete time coverage,
V = all (or most of) the development of the flare was visually observed, or
S = flare was seen visually for a small part of its probable duration.

* For easier visual selection of the more important flares a minus sign, "-", is used to indicate subflares instead of "S".

-- Time of measurement for tabulated areas.
-- Apparent (i.e., projected) area at time of maximum brightness in millionths of solar disk -- this is not necessarily the maximum area. (Prior to January 1975 this measured area in millionths was divided by 97 and was indicated as heliographic square degrees, hence the tabular heading was incorrect and should have been mill/97.)
-- Corrected area in square degrees.
-- Remarks in the IAU system of notes where

A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by a high speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the calcium II lines H and K.
P = Flare shows helium D_3 in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked asymmetry in Hα line suggests ejection of high velocity material.
S = Brightness follows disappearance of filament (same position).
T = Region active all day.
U = Two bright branches, parallel (||) or converging (Y).
V = Occurrence of an explosive phase: important and abrupt expansion in about a minute with or without important intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide Hα line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

When importance is questionable the list of observatories reporting cinematographic patrol but not reporting flare follows the group report. The abbreviated observatory name is followed by "2" when a second look by the observer still did not identify a flaring event at that time. Observatories not observing the event and not making a second evaluation are followed by "1".

Intervals when no observatory reported times of patrol observation are listed chronologically in the table.

NEW STANDARDIZED FLARE DATA FOR JANUARY - APRIL 1975 ARE ON PAGES 26-40 OF THIS REPORT.

Hα SOLAR FLARES

MAY 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 MAY	START	MAX. PHASE	END	APPROX LAT.	APPROX MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMR DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
152 RAMY	01	1143	1145	1155D	S13	W25	.442	13627	29.6	120	-F	4	C		22		
153 MEUD	01	1256		1258D	S12	E48	.744	13634	5.1	20	-F		C	1257	50		
GRP62154	01	1445	1449	1457	S08	W03	.084	13635	1.4	12	-N				30	.3	DH
MCNA	01	1445	1449	1457	S08	W04	.096	13635	1.3	12	-N		C	1449	25	.3	DH
MEUD	01	1448E		1448D	S08	W03	.084	13635	1.4		-F		C	1448	30	.3	CD
155 ABST	02	0518E	0515	0536	S07	W12	.213	13635	1.3	260	-F		P	0515	131	1	
	03	0606	0611	NO FLARE PATROL													
	03	0620	0626	NO FLARE PATROL													
GRP62156	03	1140	1145	1212	S09	E21	.366	13634	5.1	32	-F						
RAMY	03	1140	1145	1212	S08	E20	.347	13634	5.0	32	-F	4	C		45		FDE
HTPR	03	1157E		1206D	S11	E22	.369	13634	5.1	90	-F		C	1157	30	.3	E
GRP62157	03	1942E	1943+2	1951	S07	W36	.587	13635	1.1	9	-F				60	.7	H
PALE	03	1942E	1945	1949	S07	W36	.587	13635	1.1	70	-F	2	V		60		H
PALE	03	1942E	1943	1952D	S08	W37	.602	13635	1.0	100	-F	3	C		60		H
GRP62158	03	2153	2156+5	2206	S07	W38	.615	13635	1.1	13	-F				30	.4	H
BOUL	03	2153	2201	2209	S06	W39	.628	13635	1.0	16	-F	2	C	2201	43	.6	
PALE	03	2155E	2156	2206	S08	W38	.616	13635	1.1	110	-F	2	V		20		DE H
PALE	03	2157E	2159	2206	S07	W38	.615	13635	1.1	90	-N	3	C		20		DE H
159 BOUL	04	0007	0010	0030	S11	E21	.374	13634	5.6	23	-F	2	C	0010	11		
160 BOUL	04	0015	0023	0036	S06	W41	.655	13635	30.9	21	-F	2	C	0023	11		
	04	0159	0208	NO FLARE PATROL													
GRP62161	04	0238+1	0248+8	0258	S08	W42	.669	13635	1.0	12	-F				50	.7	H
PALE	04	0238	0248	0248D	S08	W42	.669	13635	1.0	100	-F	3	C		70		DE H
PALE	04	0239	0240	0250	S08	W42	.669	13635	1.0	11	-F	3	V		40		DE H
GRP62162	04	0526E	0532	0544	S06	W44	.693	13635	30.9	18	-F				45	.6	H
MANI	04	0526E	0532U	0545	S08	W43	.681	13635	1.0	190	-F	3		0532	60	.8	FH
ATHN	04	0536E	0536U	0543	S05	W46	.718	13635	30.8	70	-F	3	V		32		DE H
163 BOUL	04	1305	1307	1310	S07	W49	.753	13635	30.9	5	-N	2	C	1307	21		
164 BOUL	04	1402	1414	1420	S07	W49	.753	13635	30.9	18	-F	2	C	1414	21		
GRP62165	04	1553	1604+5	1632	S11	E06	.161	13634	5.1	39	-N				120	1.2	U
RAMY	04	1553	1604	1632	S11	E07	.173	13634	5.2	39	-N	4	C		81		U
ATHN	04	1605E	1605U	1637	S10	E08	.174	13634	5.3	320	-N	3	V		128		UDE
RAMY	04	1608E	1609	1630	S11	E04	.142	13634	5.0	220	-N	4	V		160		U
GRP62166	04	1743+1	1746+1	1750	S07	W50	.764	13635	1.0	7	-F				30	.5	H
RAMY	04	1743E	1747U	1855D	S07	W51	.775	13635	30.9	720	-F	3	C		18		DE H
PALE	04	1744	1746	1750	S08	W50	.765	13635	1.0	6	-F	3	C		30		DE
PALE	04	1745E	1746	1750	S08	W50	.765	13635	1.0	50	-F	3	V		30		DE
HUAN	04	1747E		1747D	S07	W50	.764	13635	1.0		-F	1	P				
GRP62167	04	1759	1801 1807+2	1835	S07	W50	.764	13635	1.0	36	-F				35	.5	H
BOUL	04	1759	1801	1835	S07	W50	.764	13635	1.0	36	-F	2	C	1801	43	.7	
PALE	04	1805E	1807	1810D	S08	W50	.765	13635	1.0	50	-F	3	V		25		DE
PALE	04	1806E	1809U	1809D	S06	W51	.775	13635	30.9	30	-F	2	C		35		H
168 BOUL	04	1936E	1936E	1941	S07	W51	.775	13635	1.0	50	-F	2	P	1936	21		
	04	2238	2325	NO FLARE PATROL													
	05	0002	0011	NO FLARE PATROL													
	05	0058	0101	NO FLARE PATROL													
	05	0109	0113	NO FLARE PATROL													
	05	0135	0141	NO FLARE PATROL													
GRP62169	05	0348+1	0356+1	0400	S06	W56	.827	13635	1.0	12	-N				80	1.4	DHL
TACH	05	0348	0356	0359	S07	W56	.827	13635	1.0	11	-B		C	0356	88	1.6	DL
MITK	05	0349	0357	0401	S06	W57	.837	13635	30.9	12	-N		C	0357	80	1.5	DH
GRP62170	05	1548+8	1555	1627	S11	W06	.163	13634	5.2	39	-N				120	1.2	EU
RAMY	05	1548	1555	1625	S11	W06	.163	13634	5.2	37	-N	4	C		153		U
MCNA	05	1548		1628	S12	W06	.176	13634	5.2	40	-N		C	1554	100	1.1	EU
	05	1906	1932	NO FLARE PATROL													

Hα SOLAR FLARES

MAY 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX LAT.	APPROX LONG. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		CONG	TYPE	TIME UT	MEAS. AREA Mill. of Dist	CORR AREA Sq. Deg	
	1975 MAY																
	05	2042	2104	NO FLARE PATROL													
171 RAMY	06	1147	1150	1207D	S10	W19	.340	13634	5.1	20D	-F	3	C		63		
	06	1942	1945	NO FLARE PATROL													
	06	2022	2035	NO FLARE PATROL													
	06	2130	2133	NO FLARE PATROL													
GRP62172	07	0417+1	0419+2	0430	S13	W22	.402	13634	5.5	13	-F						FH
MITK	07	0417	0419	0434	S12	W22	.396	13634	5.5	17	-N		C	0419	150	1.7	
ATHN	07	0418	0421	0426	S14	W22	.408	13634	5.5	8	-F	3	V		48		F H
173 ATHN	07	0621	0627	0633	S12	W25	.441	13634	5.4	12	-F	1		0627	33	3	
	07	0846	0921	NO FLARE PATROL													
	07	0923	0931	NO FLARE PATROL													
	07	0940	1020	NO FLARE PATROL													
GRP62174	08	0241+1	0242+5	0303	S10	W35	.578	13634	5.5	22	1N				200	2.5	G
VORO	08	0241	0242	0253	S12	W35	.583	13634	5.5	12	1N		C	0242	197	2.5	EG
MITK	08	0242	0243	0310	S12	W36	.597	13634	5.4	28	1N		C	0243	270	3.4	G
TEHR	08	0242	0247	0303	S06	W35	.573	13634	5.5	21	-N	4	C		88		F
GRP62175	08	1057	1100+1	1108	S12	W39	.636	13634	5.5	11	-F				45	.6	
RAMY	08	1057	1101U	1106	S13	W39	.639	13634	5.5	9	-F	2	C		36		DE
ATHN	08	1059E	1100	1109	S12	W40	.649	13634	5.5	10D	-F	4	V		48		DE
	08	1734	1821	NO FLARE PATROL													
	08	1831	1834	NO FLARE PATROL													
	08	1849	1930	NO FLARE PATROL													
	08	1939	2011	NO FLARE PATROL													
	08	2018	2028	NO FLARE PATROL													
176 RAMY	08	2105	2108U	2108D	S14	W46	.726	13634	5.4	3D	-F	2	C		27		
	08	2125	2126	NO FLARE PATROL													
	09	0250	0255	NO FLARE PATROL													
	09	0305	0322	NO FLARE PATROL													
GRP62177	09	0659+1	0702+2	0714	S12	W50	.769	13634	5.5	15	-F				70	1.1	U
MANI	09	0659	0702	0716	S12	W51	.779	13634	5.5	17	-F	2		0702	70	1.2	
ATHN	09	0700	0704U	0711	S12	W50	.769	13634	5.5	11	-F	5	V		80		U
GRP62178	09	1034+0	1039+7	1100	S06	E90	1.000	13646	16.2	26	-N						H
MONT	09	1034	1044	1058	S06	E90	1.000	13646	16.2	24	-F		C	1044	70		B
RAMY	09	1034	1039	1103	S05	E90	1.000	13646	16.2	29	-B	4	C				
KHAR	09	1045E	1046	1100D	S06	E90	1.000	13646	16.2	15D	1N		V	1046			H
179 BOUL	09	1323	1325	1333	S06	E90	1.000	13646	16.3	10	-F	2	C	1325	21		
GRP62180	09	1353>9	1402	1427	S05	E90	1.000	13646	16.3	34	-N						
			1410														
RAMY	09	1353	1402	1424	S05	E90	1.000	13646	16.3	31	-N	4	C				
BOUL	09	1406	1410	1430	S06	E90	1.000	13646	16.3	24	-N	2	C	1410	43	1.7	
	09	2014	2024	NO FLARE PATROL													
	10	0130	0224	NO FLARE PATROL													
	10	0234	0326	NO FLARE PATROL													
	11	1821	1843	NO FLARE PATROL													
	11	1848	1901	NO FLARE PATROL													
	11	2008	2144	NO FLARE PATROL													
	12	1832	2052	NO FLARE PATROL													
	12	2059	2140	NO FLARE PATROL													
181 HTPR	14	0620	0628	0645	S08	E25	.429	13646	16.1	25	-F		C	0628	18		
	14	1644	1649	NO FLARE PATROL													
	14	1846	1851	NO FLARE PATROL													
	14	2008	2019	NO FLARE PATROL													
	14	2034	2049	NO FLARE PATROL													
	14	2053	2057	NO FLARE PATROL													
	14	2140	2206	NO FLARE PATROL													
	15	2008	2133	NO FLARE PATROL													
182 MANI	16	0137E	0138	0144	N03	E26	.447	13652	18.0	7D	-F	3		0138	20		

Hα SOLAR FLARES

MAY 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 MAY	START	MAX. PHASE	END	APPROX LAT.	APPROX LONG. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		CONG	TYPE	TIME UT	MEAS. AREA Millionths of Disk	CORR AREA Sq. Deg.	
GRP62183	17	0830+6	0835+1 0851	0901	S07	W16	.285	13646	16.2	31	-N				70	.7	EGHKSU
HTPR	17	0838	0835	0917	S06	W19	.338	13646	15.9	47	-N		C	0835	100	1.0	EK
TEHR	17	0831	0835	0858	S11	W15	.295	13646	16.2	27	-N	3	V		59		U S
ATHN	17	0832	0835	0903	S07	W17	.301	13646	16.1	31	-N	2		0835	50	5.0	
MONT	17	0833	0836	09000	S06	W16	.281	13646	16.2	270	-F		C	0836	50		EG
ARCE	17	0836	0851	09000	S06	W15	.265	13646	16.2	240	-N		C	0851	115	1.2	H
MANI	17	0839E	0839U	0844D	S07	W16	.285	13646	16.2	50	-N	3		0839	80	.9	F
GRP62184	17	0920>9	0920 0958	10300	S07	W18	.317	13646	16.0	70	1F						E
KHAR	17	0920E	0920	10300	S08	W18	.322	13646	16.0	700	1F		V				ET
ARCE	17	0940	0958	10000	S06	W18	.314	13646	16.1	200	-N		C	0950	45	.5	
	17	2005	2031	NO FLARE PATROL													
185 ATHN	18	1126	1128	1133	N03	W08	.167	13652	17.9	7	-F	4	C		16		
	18	1900	2123	NO FLARE PATROL													
	19	2115	2136	NO FLARE PATROL													
	19	2300	2318	NO FLARE PATROL													
GRP62186	20	1154+1	1158+5	1214	N05	W35	.583	13652	17.9	20	-F				50	.6	DG
KHAR	20	1138E	1141	12150	N05	W35	.583	13652	17.9	370	-F		P	1158	90	1.1	D
RAMY	20	1154	1158	1210	N03	W35	.579	13652	17.9	16	-N	4	C		36		DE
MONT	20	1154	1201	12180	N05	W34	.569	13652	17.9	240	-F		C	1201	50		G
HTPR	20	1155	1159	1235	N05	W36	.597	13652	17.8	40	-N		C	1159	40	.5	
MEUD	20	1155	1159	1205	N05	W34	.569	13652	17.9	10	-N		C	1159	60	.7	D
ATHN	20	1159E	1203	1211	N06	W35	.586	13652	17.9	120	-F	5	C		48		DE
GRP62187	20	1527+0	1529+0	1536	N04	W36	.595	13652	17.9	9	-F				35	.4	D
MEUD	20	1527	1529	1535	N05	W36	.597	13652	17.9	8	-F		C	1529	40	.5	D
MCMA	20	1527	1529	1536	N04	W36	.595	13652	17.9	9	-N		C	1529	30	.4	D
	20	1858	2029	NO FLARE PATROL													
	20	2039	2155	NO FLARE PATROL													
	21	1847	1855	NO FLARE PATROL													
	21	1905	1927	NO FLARE PATROL													
	21	2145	2151	NO FLARE PATROL													
GRP62188	22	1109+0	1111+0	1126	S11	E33	.559	13675	24.9	17	-F				30	.4	
ATHN	22	1109	1111U	1126	S11	E33	.559	13675	24.9	17	-F	4	C		32		DE
ATHN	22	1109	1111U	1126	S11	E33	.559	13675	24.9	17	-F	4	V		32		DE
GRP62189	22	1409+2	1412+4	1419	S10	E32	.542	13675	25.0	10	-F				20	.2	
RAMY	22	1409	1416U	1423	S08	E31	.522	13675	24.9	14	-N	3	C		20		DE
ATHN	22	1410	1412	1419	S12	E33	.563	13675	25.1	9	-F	4	V		16		DE
ATHN	22	1410	1412	1419	S12	E33	.563	13675	25.1	9	-F	4	C		16		DE
HUAN	22	1411	1412	1415	S10	E32	.542	13675	25.0	4	-F	1	C				
	22	1937	1952	NO FLARE PATROL													
	22	2000	2011	NO FLARE PATROL													
	22	2026	2029	NO FLARE PATROL													
	22	2034	2135	NO FLARE PATROL													
	22	2136	2151	NO FLARE PATROL													
	23	0104	0122	NO FLARE PATROL													
	23	2021	2215	NO FLARE PATROL													
	25	0021	0024	NO FLARE PATROL													
	25	0040	0050	NO FLARE PATROL													
	25	1842	1850	NO FLARE PATROL													
	25	1925	1934	NO FLARE PATROL													
	25	2110	2201	NO FLARE PATROL													
	26	0032	0109	NO FLARE PATROL													
	26	0119	0124	NO FLARE PATROL													
	27	1924	1931	NO FLARE PATROL													
	27	2001	2011	NO FLARE PATROL													
	27	2025	2034	NO FLARE PATROL													
	27	2046	2103	NO FLARE PATROL													
	27	2115	2122	NO FLARE PATROL													
	27	2127	2131	NO FLARE PATROL													
190 HTPR	28	0924	0929	0944	S15	E17	.371	13688	29.7	20	-F		C	0929	10		
191 HTPR	28	1308	1311	1312	S15	E15	.346	13688	29.7	4	-F		C	1311	10		
192 HTPR	28	1346	1347	1353	S15	E16	.358	13688	29.8	7	-F		C	1347	10		
193 HTPR	28	1709		17240	S01	E70	.940	13689	3.0	150	-F		C	1711	10		

Hα SOLAR FLARES

MAY 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 MAY	START	MAX. PHASE	END	APPROX LAT.	APPROX MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY	MIN.		CONG	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR. AREA Sq. Deg.	
	28	1913	1922	NO FLARE PATROL													
	28	1940	1951	NO FLARE PATROL													
	28	2000	2016	NO FLARE PATROL													
	28	2023	2035	NO FLARE PATROL													
	28	2128	2255	NO FLARE PATROL													
	29	0017	0020	NO FLARE PATROL													
	29	0110	0120	NO FLARE PATROL													
	29	0126	0135	NO FLARE PATROL													
	29	2005	2011	NO FLARE PATROL													
	29	2055	2101	NO FLARE PATROL													
	29	2110	2151	NO FLARE PATROL													
	29	2306	2319	NO FLARE PATROL													
	30	2141	2145	NO FLARE PATROL													
	30	2215	2241	NO FLARE PATROL													
	31	1715	1757	NO FLARE PATROL													
	31	1817	1929	NO FLARE PATROL													
	31	2027	2035	NO FLARE PATROL													
	31	2047	2234	NO FLARE PATROL													

DAILY FLARE INDICES
Includes all Flares

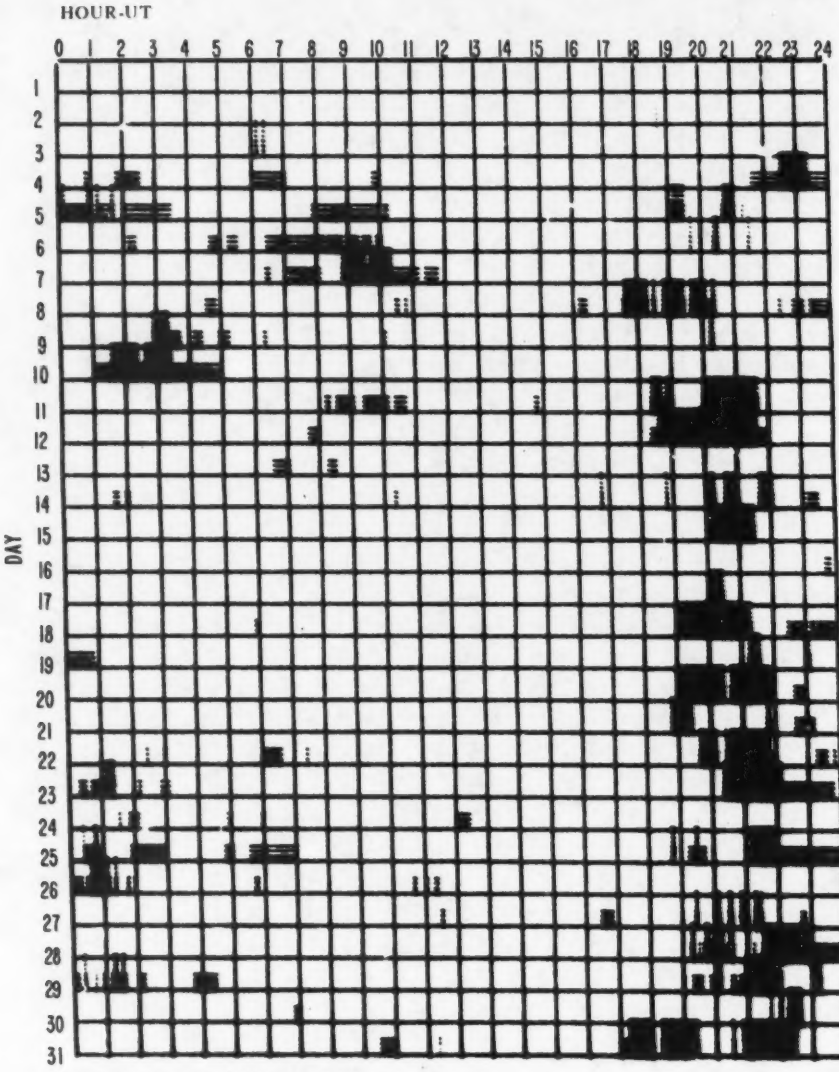
Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.
750501	7.65	24.0	750511	0.00	21.7	750522	.71	22.3
750502	5.28	24.0	750512	0.00	21.0	750523	0.00	21.8
750503	7.65	23.8	750514	5.28	22.9	750525	0.00	22.7
750504	24.26	23.1	750515	0.00	22.6	750526	0.00	23.3
750505	10.98	22.7	750516	5.28	24.0	750527	0.00	23.1
750506	5.28	23.7	750517	28.13	23.6	750528	17.49	21.8
750507	10.93	22.6	750518	5.03	21.6	750529	0.00	22.5
750508	25.02	21.8	750519	0.00	23.5	750530	0.00	23.5
750509	5.13	23.5	750520	2.16	21.2	750531	0.00	20.2
750510	0.00	22.2	750521	0.00	23.4			

When no Flare Index is given, it is 0 for that day.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

MAY 1975



Observatories included in total patrol:

Abastumani	Culgoora	Kiev	Meudon	Tehran
Arcetri	Haute Provence	Kodaikanal	Mitaka	Upice
Athenes	Herstmonceux	Locarno	Monte Mario	Voroshilov
Boulder	Huancayo	Lvov	Palehua	Wendelstein
Bucharest	Hurbanovo	Manila	Ramey	Zürich
Catania	Kharkov	McMath-Hulbert	Tachkent	

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MAY 1975

MAY 1975	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
1	2695	SGMR	4 S/F	1406.9	1408.5	5.2	15.6	4.7		
	2695	SGMR	4 S/F	1412.6	1415.5	5.7	13.1	3.9		
	245	SGMR	43 NS	1650	2141.8	408 D	15.6			
	4995	BOUL	45 C	1656	1657	2.5	36	14		
	1420	BOUL	2 S	1835	1835.5	3	4	1		
	200	HIRA	44 NS	1950 E	2153	690 D	12	3		SR
	207	VORO	44 NS	2100	2225	240	15			
2	200	GORK	43 NS	0309		400 D		5		
	260	ONDR	44 NS	0730 E		460 D	15			
	127	TORN	43 NS	0800 U	1200 U	300 D	25			
	245	SGMR	44 NS	1150 E	1803.2	710 D	55.8			
	410	SGMR	44 NS	1150 E	2318.2	710 D	20.3			
	228	HARS	44 NS	1315 U	1522 U	300 U	15	7		SUNSET
	200	HIRA	44 NS	1950 E	0257	745 D	24	8		SR
	207	VORO	44 NS	2100	2300	240	28			
	2800	OTTA	20 GRF	1440	1515	175	1.2	0.7		
	2800	OTTA	20 GRF	1805	1940	155	1.2	0.7		
3	2000	TYKW	5 S	0325	0325.8	1.5	0.9	0.2		OL
	1000	TYKW	45 C	0325	0325.9	2	2.5	0.5		OL
	250	ONDR	44 NS	0640 E		550 D	40			
	207	IZMI	43 NS	0720		280	25			
	245	SGMR	44 NS	0940 E	1423	841 D	46.4			
	410	SGMR	44 NS	0940 E	1449.5	841 D	32.4			
	228	HARS	27 RF	1405.1U	1406.3U	5.2	26	16		
	207	VORO	44 NS	2100	2322	240	39			
	200	HIRA	43 NS	2227	0330	437	27	6		SR
	8800	SGMR	41 F	1649.6	1650.2	13.8	38.5	11.6		
	606	SGMR	2 S/F	2157.9	2159	1.4	82	2.4		
	410	SGMR	6 S	2158	2158.9	2.2	60.5	18.1		
	100	HIRA		2158	2159		580			WL
	100	HIRA	45 C	2158	2158.6	2	190	150		WL
	245	SGMR	48 C	2158.1	2158.5	1.2	1422.9	284.6		
	1415	SGMR	1 S	2158.8	2159	.4	4.8	1.4		
	18	MCMA	6 S	2159	2201	3			1	
4	100	HIRA	45 C	0238	0238.7	3.5	290	200		WL
	100	HIRA		0239.4	0239.4		750			WL
	2000	TYKW	45 C	0239	0240.5	3	1	0.3		OL
	1000	TYKW	45 C	0239	0240.1	3	7	1		OSL
	1000	TYKW			0240.6		7			
	200	GORK	44 NS	0321 E		399 D		15		
	100	GORK	42 SER	0532.4	0532.5	21.1	70			
	260	ONDR	44 NS	0635 E		517 D	30			
	245	SGMR	44 NS	0939 E	1715	843 D	162			
	410	SGMR	44 NS	0939 E	1714.9	843 D	17.8			
	228	HARS	43 NS	1247.5U	1325 U	360 U	22	4		SUNSET
	200	HIRA	44 NS	1950 E	2240	517 D	12	2		OL
	207	VORO	44 NS	2100	2120	240	24			
	207	IZMI	6 S	0702.3	0703	0.7	240			
	207	IZMI	6 S	0728	0728.5	1	100			
	221	ABST	7 C	0824	0825.5	2	16			
	221	ABST	7 C	0844.2	0844.8	1.8	22			
	2800	OTTA	20 GRF	1553	1610	50	1.4	0.8		
	606	SGMR	41 F	1749.7	1749.8	25.8	10.8	3.2		
	410	SGMR	6 S	1759.8	1802.5	5.9	17.3	5.2		
	2800	OTTA	20 GRF	2030	2125	75	1.2	0.6		
5	2800	TYKW	20 GRF	0150	0210	70	1.1	0.5		OL
	3750	TYKW	5 S	0200	0210	40	1.5	0.5		OR
	200	GORK	44 NS	0300 E		240 D		5		
	100	GORK	44 NS	0300		120		5		
	260	ONDR	44 NS	0638 E		522 D	34			
	127	TORN	44 NS	0700 E		450 D				
	237	TRST	45	0847.4	0847.4	0.2	238	45		4R
	550	KIEV	41 F	0851.7	0852.2	1.5	26			
	245	SGMR	44 NS	0939 E	1237.2	844 D	69.1			
	410	SGMR	44 NS	0939 E	1121.8	844 D	31.7			
	2800	OTTA	8 S	1353.3	1353.4	0.7	2.2	1.1		
	2695	BOUL	1 S	1354	1354.5	1.5	4	1		
	9240	ARCE	21	1417.5	1448.5	184				
	9240	ARCE	3	1543	1544.8	5.2				
	2800	OTTA	250AR	1547	1602	15	0.8			
	2800	OTTA	20 GRF	1547	1555	12	2	1		
	2800	OTTA	24P R	1602		158	0.8			
	2800	OTTA	240 R	1850	1935	45	2.2	1.1		
	2800	OTTA	24PFR	1935		325	2.2			
	207	VORO	44 NS	2100	2110	240	12			
6	200	GORK	44 NS	0306 E		531 D		5		
	260	ONDR	44 NS	0636 E		513 D	18			
	245	SGMR	44 NS	0936 E	1832.2	846 D	60			
	410	SGMR	43 NS	1148	2003.1	716 D	10			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MAY 1975

MAY 1975	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
	237	TRST	42	1238.6	1239	2.1	98			5R
	2800	OTTA	260 FAL	1510	1610	60	-1	-0.5		
	237	TRST	41	1644.5	1644.6	0.2	65			2R
	2695	BOUL	8 S	1905.5	1906.5	1.5	6	2		
┌	606	SGMR	3 S	2137.5	2137.6	.2	47.9	14.4		
├	1415	SGMR	1 S	2137.5	2137.6	.2	3.9	1.2		
├	245	SGMR	6 S	2137.5	2137.6	.3	17.3	5.2		
└	410	SGMR	6 S	2137.5	2137.6	.2	16.5	4.9		
7										
┌	2695	SGMR	3 S	1309.5	1309.9	.9	29.5	8.9		
└	1415	SGMR	3 S	1309.6	1309.8	.5	26.5	8		
	2695	BOUL	1 S	1556	1556.5	1.5	4	1		
	2695	BOUL	1 S	1559.5	1600	2.5	4	1		
┌	2695	SGMR	1 S	1739.2	1739.3	.9	3.3	.1		
└	1415	SGMR	3 S	1739.5	1739.6	.3	13.7	4.1		
8	2695	BOUL	48 F	0803.5	0804.5	6	6	2		
┌	1420	SYDN	1 S	0240.7	0240.7	2.7	17			
├	720	SYDN	8 S	0241.7	0241.8	0.3	15			
├	9400	TYKW	5 S	0241	0242	28	4	2		OR
├	3750	TYKW	45 C	0241	0241.9	3	24	4		OR293048F
├	3750	TYKW	29 PBI	0244		30	2	1		
├	2000	TYKW	5 S	0241	0241.9	3	3	1.5		DL
├	2800	TYKW	29 PBI	0244		30	0.7	0.3		
└	1000	TYKW	45 C	0241	0242.9	4	1.5	0.4		DL
	18	MCMA	6 S	1318	1321	5			1	
	18	MCMA	6 S	1352	1353	3			1	
	18	MCMA	6 S	2054	2056	3			2	
	18	MCMA	6 S	2107	2108	2			1	
	18	MCMA	6 S	2133	2135	3			2	
	1420	BOUL	8 S	2142.5	2143.5	1.5	12	5		
	18	MCMA	42 SER	2202	2208	7			1	
	18	MCMA	41 F	2311	2318	19			2	
9	18	MCMA	42 SER	2325	2328	7			2	
	18	MCMA	6 S	2357	0000	4			2	
10	18	MCMA	6 S	0036	0038	2			1	
	18	MCMA	42 SER	0047	0058	15			1	
	18	MCMA	6 S	0106	0107	2			1	
	18	MCMA	6 S	0153	0155	3			2	
┌	237	TRST	41	0937.1	0937.5	0.7	76			1R
└	260	ONDR	2 S/F	0937	0937.5	1	21	10		
	9240	ARCE	20	1027.3	1037.3	71				
	4995	BOUL	1 S	1733.5	1735	3	8	3		
11	18	MCMA	6 S	1739	1748	2			1	
┌	245	SGMR	6 S	1920	1921	1.4	44.2	13.2		
├	606	SGMR	1 S	1920.2	1920.6	.6	9	2.7		
└	410	SGMR	6 S	1920.8	1921	.5	6.7	2		
12	9240	ARCE	20	1305.6	1309.2	9				
	18	MCMA	6 S	1443	1444	2			1	
13	18	MCMA	41 F	2357	0001	9			2	
14	18	MCMA	6 S	0029	0034	5			3	
	18	MCMA	41 F	0140	0146	13			2	
	2800	OTTA	20 GRF	1710	1805	170	0.8	0.4		
15	18	MCMA	41 F	0029	0035	11			2	
	18	MCMA	6 S	0046	0048	3			2	
	127	TORN	41 F	0842 U	0844	3 U	14			
16	260	ONDR	45 C	1109.3	1110.7	2	28	4		
	2695	BOUL	2 S	1726	1728	2.5	7	2		
	2695	BOUL	2 S	1732	1733.5	2	7	2		
17	260	ONDR	45 C	1822.8	1827	9	11	5		
18	9240	ARCE	40	1039.7E	1056.2	60				RECORD DIST
20	260	ONDR	3 S	1056.1	1056.8	2	5	2		
	260	ONDR	3 S	1111.5	1112.2	2	6	2.5		
┌	245	SGMR	6 S	1153.4	1155.5	8.3	54.6	10.9		
├	410	SGMR	6 S	1154.4	1155	3.5	9.4	1.9		
├	29	UPIC	45 C	1154.5	1156	3.1				
├	33	UPIC	45 C	1154.5	1155.8	3.2				
├	536	ONDR	8 S	1154.5	1154.5	0.2	21			
├	606	SGMR	2 S/F	1154.6	1154.8	.7	6.4	1.9		
└	260	ONDR	8 S	1155.5	1155.5	0.2	28			
	18	MCMA	42 SER	1501	1502	6			1	
22	2695	BOUL	2 S	2228	2229.5	3.5	5	2		
23	260	ONDR	8 S	0845.3	0845.3	0.2	15			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MAY 1975

MAY 1975	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
	268	ONDR	8 S	0848.8	0848.8	0.2	14			
25	18	MCMA	6 S	2100	2103	3			1	
26	2800	OTTA	260 FAL	1555	1705	55	-1	-0.5		
	18	MCMA	6 S	1629	1630	3			1	
27	18	MCMA	6 S	1721	1723	2			1	
28	2695	BOUL	4 S/F	1646	1647	3	16	5		
	2695	BOUL	8 S	1716	1717.5	2.5	32	12		
29	127	TORN	45 C	0943	0944.5	2	44			UNCERTN
	18	MCMA	6 S	1726	1728	2			1	
	2695	BOUL	8 S	1848	1849	1.5	5	2		
30	18	MCMA	6 S	1801	1803	3			1	
31	18	MCMA	6 S	1447	1449	3			1	

Reports received from the following observatories:

ABST = Abastumani
ARCE = Arcetri
BERL = Berlin-Adlershof
BORD = Bordeaux
BOUL = Boulder
CRIM = Simferopol
DWIN = Dwingeloo
GORK = Gorky
HARS = Harestua
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = Moscow Izmiran
KIEV = Kiev
KISV = Kislovodsk
MANI = Manila
MCMA = McMath-Hulbert
ONDR = Ondrejov
OTTA = Ottawa
PENN = Penn. State Univ.
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
SYDN = Sydney
TORN = Torun
TYKW = Toyokawa
TRST = Trieste
UPIC = Upice
VORO = Voroshilov (Ussurisk)

APRIL 1975 DATA

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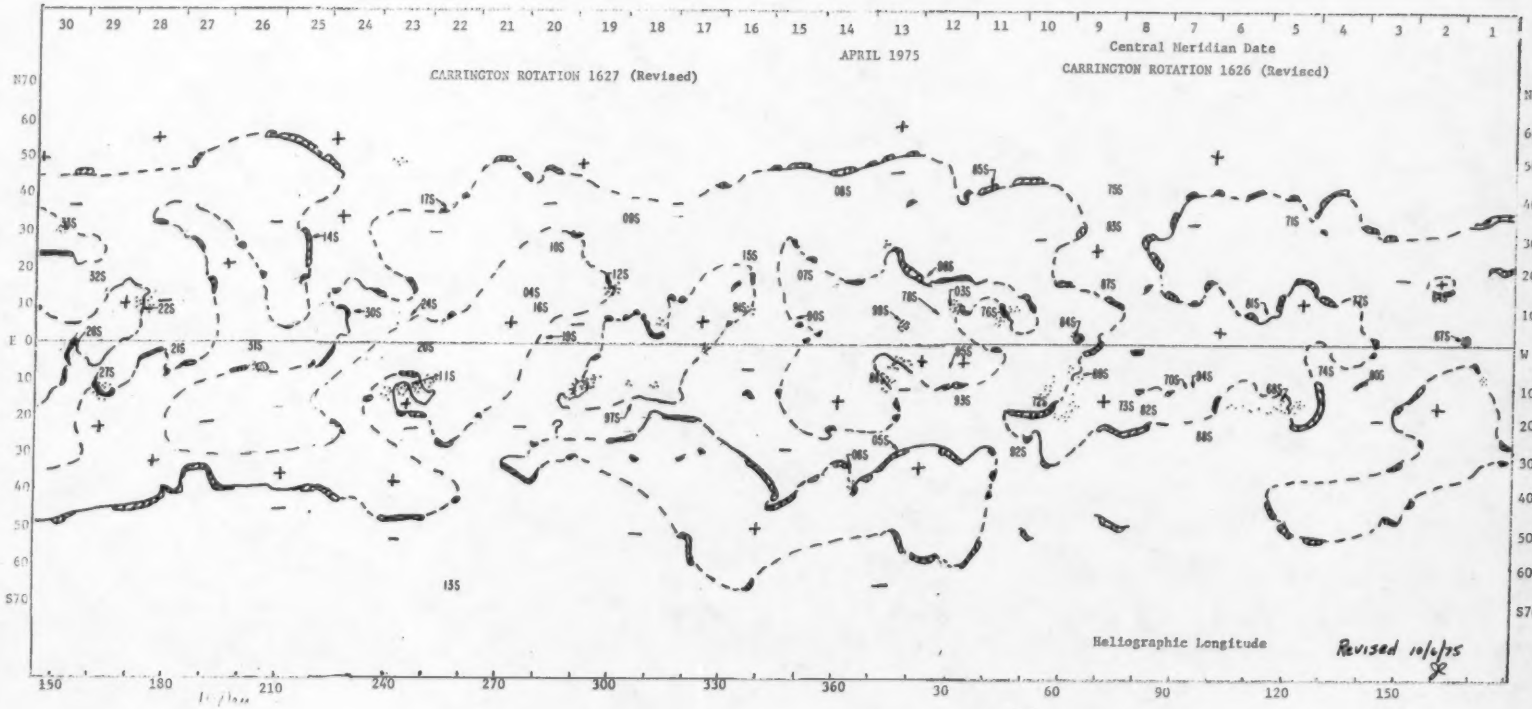
ABBREVIATED CALENDAR RECORD

APRIL 1975



Apr. 1, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
	SID	
	X-Rays	
Ap 7	Kp	3- + 2- + 3- + 2o + 1o + 2+ + 1- + 1-
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona	E. Limb 7 days earlier: NE-	SE- W. Limb 7 days later: NW- no data SW- no data
Indices	Rz: 0	10cm flux: 70 Flare: 0/23.9 Ca: 1.7 Ip: 0 Ig: 0
Solar Regions		
Sunspots		

Apr. 2, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
	SID	
	X-Rays	
Ap 50	Kp	2- + 1+ + 1o + 1- + 1- + 1o + 2+ + 2+
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona	E. Limb 7 days earlier: NE-	SE- W. Limb 7 days later: NW- SW-
Indices	Rz: 0	10cm flux: 71 Flare: 0/23.2 Ca: no data Ip: 0 Ig: 0
Solar Regions	13567 N01	(13564) N16
Sunspots	(19560) S02 (βp)1	

Apr. 3, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	1
	Dkm	
	SID	
	X-Rays	
Ap 60	Kp	3o + 2- + 2o + 1- + 1o + 1+ + 2- + 2-
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona	E. Limb 7 days earlier: NE-	SE- W. Limb 7 days later: NW- no data SW- no data
Indices	Rz: 0	10cm flux: 72 Flare: 0/21.9 Ca: 1.5 Ip: 0 Ig: 1
Solar Regions	(13580) S05	
Sunspots		

Apr. 4, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
	SID	
	X-Rays	
Ap 7	Kp	2- + 2+ + 2- + 2- + 1+ + 2- + 2+ + 3-
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona	E. Limb 7 days earlier: NE-	SE- W. Limb 7 days later: NW- no data SW- no data
Indices	Rz: 0	10cm flux: 73 Flare: 0/24.0 Ca: 1.9 Ip: 0 Ig: 0
Solar Regions	(13577) N12	13574 S06
Sunspots	N12 (no obs. Mt. Wilson)	

Apr. 5, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 10	Kp	3+ 2o 2o 2- 1- 2+ 3+ 2+
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona	E Limb 7 days earlier: NE-	SE- W Limb 7 days later: NW- no data SW- no data
Indices	Rz: 21 10cm flux: 74	Flare: 1/24.0 Cg: 2.7 Ip: 0 Ig: 2
Solar Regions	(13571) N34 13568 S15 (2)	
Sunspots	S12 (no obs. Mt. Wilson)	

Apr. 6, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		—1f/76
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 15	Kp	3o 2o 2+ 2+ 2o 3- 3- 5o
	sc	
Aurora	USSR	
	W.E.	ϕ = 59° 2115-2215 (glow) eastern Atlantic
Cosmic Rays		
Green Corona	E Limb 7 days earlier: NE- no data	SE- no data W Limb 7 days later: NW- no data SW- no data
Indices	Rz: 0 10cm flux: 74	Flare: 4/24.0 Cg: 4.6 Ip: 0 Ig: 2
Solar Regions	(13581) N09	
Sunspots	(19561) N05 ap (CMP April 5)	

Apr. 7, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 25	Kp	3- 2o 2- 3o 4o 3o 5o 6-
	sc	
Aurora	USSR	ϕ = 57° 1300-1400 (R,R2); ϕ = 58° 1400-1700 (HB1) and 1700-2000 (HA1)
	W.E.	ϕ = 60° 1945-2215 (HA) central Scotland, base estimated overhead at ϕ = 66°; ϕ = 58° 2215-2300 (R) visible as glow southern Scotland(cont'd)*
Cosmic Rays		
Green Corona	E Limb 7 days earlier: NE- no data	SE- no data W Limb 7 days later: NW- no data 280°-355° SW-
Indices	Rz: 15 10cm flux: 74	Flare: 0/24.0 Cg: 4.2 Ip: 0 Ig: 1
Solar Regions	(13588) S24 (13594) S11	13570 S11 (2)
Sunspots		

* and eastern Atlantic; at 2250 base of arc estimated to be overhead at ϕ = 64°; ϕ = 58° 2300-2400 (glow) visible eastern Atlantic and ϕ = 60° central Scotland

Apr. 8, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 320	Kp	4- 4o 3o 4o 5- 6- 5o 3-
	sc	
Aurora	USSR	ϕ = 60° 1800 (R,A2)
	W.E.	ϕ = 58° 1920-2315 (glow) southern Scotland
Cosmic Rays		
Green Corona	E Limb 7 days earlier: NE- no data	SE- no data W Limb 7 days later: NW- SW-
Indices	Rz: 17 10cm flux: 73	Flare: 2/23.8 Cg: 7.8 Ip: 0 Ig: 6
Solar Regions	13582 S18 (13573) S17	
Sunspots		

Apr. 9, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 52D — Kp: 5- | 6o | 5o | 4+ | 4o | 6o | 5- | 6-

sc

Aurora — USSR: ϕ = 58° 1400-1500 (HB2) and ϕ = 60° 2000-2200 (R,B2)

W.E.

Cosmic Rays

Green Corona

Indices: E Limb 7 days earlier: NE- no data; SE- no data; W Limb 7 days later: NW- no data; SW- no data
Rz: 9; 10cm flux: 73; Flare: 1/23.3; Ca: 5.9; Ip: 0; Ig: 6

Solar Regions: (13575) N42; (13583) N32; (13587) N12; 13589 S08; 13584 N02

Sunspots: 19562 N02 βp

Apr. 10, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 35D — Kp: 5+ | 5o | 4o | 4+ | 4o | 3+ | 4o | 5o

sc

Aurora — USSR

W.E.: ϕ = 59° 2245-0015 (glow) eastern Atlantic; ϕ = 60° 2250 (glow) central Scotland

Cosmic Rays

Green Corona

Indices: E Limb 7 days earlier: NE-; SE-; W Limb 7 days later: NW-; SW-
Rz: 13; 10cm flux: 72; Flare: 5/24.0; Ca: 3.6; Ip: 0; Ig: 5

Solar Regions: 13572 S15 (2); (13592) S29

Sunspots: 508

Apr. 11, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m — ← noise storm →; Dkm

SID

X-Rays

Ap 34D — Kp: 5+ | 5o | 4o | 5- | 5o | 4o | 3- | 3+

sc

Aurora — USSR

W.E.: ϕ = 59° 0000-0015 (glow) eastern Atlantic

Cosmic Rays

Green Corona

Indices: E Limb 7 days earlier: NE-; SE-; W Limb 7 days later: NW- no data; SW- no data
Rz: 0; 10cm flux: 72; Flare: 0/23.6; Ca: 2.7; Ip: 0; Ig: 8

Solar Regions: 13576 N08 (2); (13585) N43; (13593) S15

Sunspots: N08

Apr. 12, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 27 — Kp: 3- | 3+ | 3+ | 5o | 4- | 3+ | 3o | 6-

sc

Aurora — USSR

W.E.

Cosmic Rays

Green Corona

Indices: E Limb 7 days earlier: NE- no data; SE- no data; W Limb 7 days later: NW- no data; SW- no data
Rz: 0; 10cm flux: 70; Flare: 0/23.7; Ca: 3.0; Ip: 0; Ig: 7

Solar Regions: (13595) S07; (13603) N10; (13578) N08; (13598) N18

Sunspots

Apr. 13, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 290	Kp	5+ 4o 6- 2+ 3+ 2+ 3+ 4o
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Indices		Rz: 0 10cm flux: 70 Flare: 0/23.8 Ca: 3.6 Ip: 0 Ig: 8
Solar Regions		13599 N07 (13605) S28 (13586) S08
Sunspots		(19563) S24

Apr. 14, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	1
	dm	1
	m	1
	Dkm	
SID		
X-Rays		
Ap 21	Kp	5- 5- 3+ 3o 2+ 3o 3o 3o
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Indices		Rz: 0 10cm flux: 69 Flare: 0/23.7 Ca: 2.6 Ip: 0 Ig: 6
Solar Regions		(13606) S34 (13608) N41
Sunspots		

Apr. 15, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 7	Kp	2o 2- 1+ 1+ 2- 3- 2+ 2-
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Indices		Rz: 0 10cm flux: 69 Flare: 0/22.8 Ca: 2.4 Ip: 0 Ig: 1
Solar Regions		(13607) N18 13590 N07
Sunspots		

Apr. 16, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 60	Kp	3- 2+ 2+ 1o 1- 1+ 1o 1-
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data SW- no data
Indices		Rz: 0 10cm flux: 69 Flare: 0/24.0 Ca: 1.6 Ip: 0 Ig: 0
Solar Regions		(13615) N24 13591 N10 (2)
Sunspots		

Apr. 17, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 500 Kp: 1- | 0+ | 1- | 2- | 2o | 2+ | 1+ | 1-

Ap 500 sc

Aurora USSR

Aurora W.E.

Cosmic Rays

Green Corona: E Limb 7 days earlier: NE- no data; SE- no data; W Limb 7 days later: NW- no data; SW- no data

Indices: Rz: 0; 10cm flux: 69; Flare: 1/23.5; Ca: 2.5; Ip: 0; Ig: 2

Solar Regions

Sunspots

Apr. 18, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 60 Kp: 1- | 1+ | 1- | 2o | 3o | 2- | 1+ | 2-

Ap 60 sc

Aurora USSR

Aurora W.E.

Cosmic Rays

Green Corona: E Limb 7 days earlier: NE- no data; SE- no data; W Limb 7 days later: NW-; SW-

Indices: Rz: 0; 10cm flux: 68; Flare: 0/24.0; Ca: no data; Ip: 0; Ig: 1

Solar Regions: 13597 S16; (13609) N35

Sunspots

Apr. 19, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 500 Kp: 1+ | 2- | 1+ | 1o | 2- | 2+ | 1o | 1-

Ap 500 sc

Aurora USSR

Aurora W.E.

Cosmic Rays

Green Corona: E Limb 7 days earlier: NE- no data; SE- no data; W Limb 7 days later: NW- no data; SW- no data

Indices: Rz: 0; 10cm flux: 67; Flare: 0/23.6; Ca: 1.4; Ip: 0; Ig: 0

Solar Regions: (13612) N15

Sunspots

Apr. 20, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 25 Kp: 0+ | 1- | 2o | 2+ | 3o | 5- | 6- | 5+

Ap 25 sc

Aurora USSR: ϕ = 58° 2000-2100 (SB2)

Aurora W.E.: ϕ = 60° 2250 (rayed glow) central Scotland

Cosmic Rays

Green Corona: E Limb 7 days earlier: NE- no data; SE- no data; W Limb 7 days later: NW-; SW-

Indices: Rz: 0; 10cm flux: 67; Flare: 0/23.7; Ca: 2.7; Ip: 0; Ig: 3

Solar Regions: (13610) N26; (13619) N01; 13616 N10; (13604) N14

Sunspots

Apr. 21, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 23 — Kp: 6o | 2+ | 2o | 3o | 4o | 4- | 3+ | 1+ — sc

Aurora — USSR: ϕ = 59° 2000 - 2400 (R,R1-2) — W.E.: ϕ = 60° 0150 (rayed glow) central Scotland

Cosmic Rays: 3% decrease 0200

Green Corona Indices: E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Rz: 0 10cm flux: 68 Flare: 0/23.9 Cg: 2.4 Ip: 0 Ig: 2

Solar Regions

Sunspots

Apr. 22, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 15 — Kp: 3+ | 4o | 3+ | 2o | 3- | 2o | 3- | 4- — sc

Aurora — USSR — W.E.

Cosmic Rays

Green Corona Indices: E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Rz: 0 10cm flux: 67 Flare: 0/24.0 Cg: 2.2 Ip: 0 Ig: 6

Solar Regions: (13613) S65 (13617) N36

Sunspots

Apr. 23, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 25 — Kp: 4o | 3+ | 4- | 5- | 3- | 5- | 4- | 4- — sc

Aurora — USSR — W.E.

Cosmic Rays

Green Corona Indices: E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- SW-
Rz: 7 10cm flux: 68 Flare: 6/23.6 Cg: 1.4 Ip: 0 Ig: 6

Solar Regions: (13620) S01 13611 S12 (13624) N09

Sunspots

Apr. 24, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 17 — Kp: 4o | 3o | 3o | 4o | 2+ | 3o | 3o | 3o — sc

Aurora — USSR — W.E.

Cosmic Rays

Green Corona Indices: E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data SW- no data
Rz: 8 10cm flux: 68 Flare: 0/24.0 Cg: no data Ip: 0 Ig: 4

Solar Regions: (13630) N08

Sunspots: (19565) N09 (Bf)3

Apr. 25, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 8 — Kp: 3- 3- 2+ 2- 2- 2- 1- 2-

Aurora — sc, USSR, W.E.

Cosmic Rays

Green Corona

Indices — E. Limb 7 days earlier: NE- no data; SE- no data; W. Limb 7 days later: NW-; SW-

Rz: 7 10cm flux: 71 Flare: 7/23.1 Ca: no data Ip: 0 Ia: 2

Solar Regions — (13614) N28

Sunspots

Apr. 26, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 9 — Kp: 4- 1+ 1o 2+ 2- 2+ 3- 2o

Aurora — sc, USSR, W.E.

Cosmic Rays

Green Corona

Indices — E. Limb 7 days earlier: NE- no data; SE- no data; W. Limb 7 days later: NW-; SW-

Rz: 7 10cm flux: 71 Flare: 2/23.9 Ca: 2.4 Ip: 0 Ia: 2

Solar Regions — (13631) S01

Sunspots

Apr. 27, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 5QQ — Kp: 1+ 3- 1o 1+ 0o 0+ 1+ 1+

Aurora — sc, USSR, W.E.

Cosmic Rays

Green Corona

Indices — E. Limb 7 days earlier: NE- no data; SE- no data; W. Limb 7 days later: NW- no data; SW- no data

Rz: 26 10cm flux: 73 Flare: 1/23.6 Ca: 4.5 Ip: 0 Ia: 2

Solar Regions

Sunspots

Apr. 28, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 3QQ — Kp: 1+ 1- 0+ 0+ 0o 1- 1o 1-

Aurora — sc, USSR, W.E.

Cosmic Rays

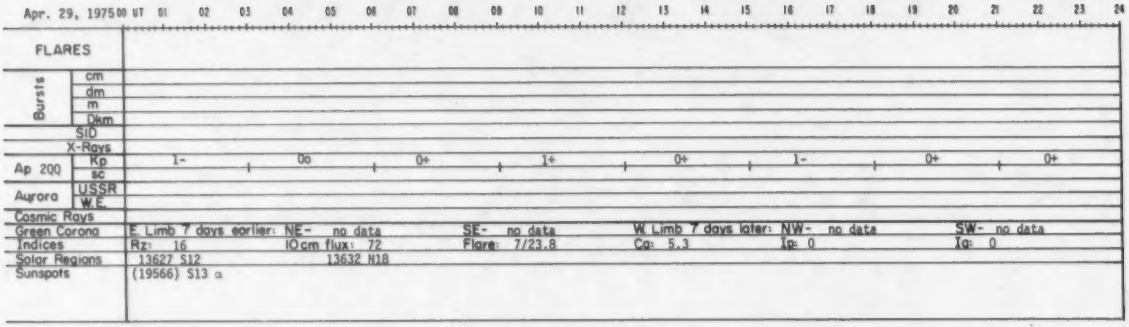
Green Corona

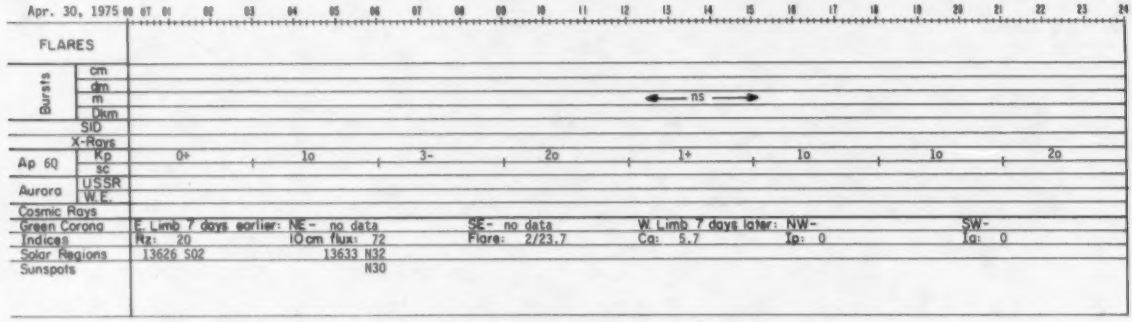
Indices — E. Limb 7 days earlier: NE- no data; SE- no data; W. Limb 7 days later: NW-; SW-

Rz: 19 10cm flux: 74 Flare: 0/24.0 Ca: no data Ip: 0 Ia: 0

Solar Regions — (13621) S02 13622 N09 N09

Sunspots


Apr. 29, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 200
Kp
1- 0o 0+ 1+ 0+ 1- 0+ 0+
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E Limb 7 days earlier: NE- no data SE- no data W Limb 7 days later: NW- no data SW- no data
Indices
Rz: 16 10cm flux: 72 Flare: 7/23.8 Ca: 5.3 Ip: 0 Ig: 0
Solar Regions
13627 S12 13632 N18
Sunspots
(19566) S13 α



REGIONAL FLARE INDEX
INCLUDES ALL FLARES

MC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
13567	N 1	75/04/02.8	75/03/30	75/03/30	3.65	3.65	1
13564	N16	75/04/02.4	75/03/29	75/03/29	.84	.84	1
13568	S15	75/04/05.7	75/03/30	75/03/31	.84	.42	2
13584	N 2	75/04/09.9	75/04/09	75/04/10	6.68	3.38	2
13576	N 9	75/04/11.2	75/04/05	75/04/08	6.97	1.74	4
13624	N 8	75/04/23.3	75/04/17	75/04/23	6.13	.88	2
13638	N 9	75/04/24.5	75/04/25	75/04/30	7.89	1.18	3
13622	N 9	75/04/28.7	75/04/23	75/04/25	2.78	.93	2
13627	S13	75/04/29.7	75/05/01	75/05/01	5.28	5.28	1

Note:
Because of differences in method of calculation, the dates of Central Meridian Passage for the McMath Plage Regions vary somewhat from those given elsewhere. Any region not listed here produced no flares during its disk passage.

SGD 375 Part II (Comprehensive)

MISCELLANEOUS DATA

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Hα SOLAR FLARES

JANUARY 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 JAN	START	MAX. PHASE	END	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMR DAY	MIN.		CONC.	TYPE	TIME UT	MEAS. AREA Millionths of Disk	CORR. AREA Sq. Deg.	
914 MANI	01	0132	0135	0149	N05	E90	1.000	13409	7.8	17	-F	2		0135	50	1.7	
915 MANI	01	0139	0142	0147	N07	W52	.797	13404	28.2	8	-F	2		0142	30		
916 HTPR	01	1041	1047	1100	N07	W68	.872	13404	27.9	19	-F		C	1047	20		
917 HTPR	01	1110	1112	1120	N07	W60	.872	13404	28.0	10	-F		C	1112	20		
	01	1544	1548	NO FLARE PATROL													
	01	1635	1708	NO FLARE PATROL													
	01	2211	2236	NO FLARE PATROL													
918 ABST	02	0937E	0941	0949D	S08	E27	.459	13400	4.4	12D	-F		P	0941	87	1.0	
919 MONT	02	1102	1103	1105	N08	W73	.960	13404	28.0	3	-F		C	1103	20		
920 MONT	02	1116	1118	1123	N08	W73	.960	13404	28.0	7	-F		C	1118	20		
	02	2124	2127	NO FLARE PATROL													
	02	2211	2225	NO FLARE PATROL													
	02	2315	2333	NO FLARE PATROL													
GRP61921	03	0323	0338+3	0354	N09	W88	1.000	13404	27.5	31	-B				40		DG
MITK	03	0323	0348	0357	N08	W89	1.000	13404	27.5	34	1B		C	0340	50		DG
PALE	03	0335E	0338	0344D	N10	W88	1.000	13404	27.5	9D	-N	2	C		40		
PALE	03	0338E	0341U	0351	N10	W88	1.000	13404	27.6	13D	-B	2	V		40		
	03	0638	0648	NO FLARE PATROL													
	03	0708	0728	NO FLARE PATROL													
	03	0738	0748	NO FLARE PATROL													
922 CATA	03	0748E	0800	0800D	S12	E11	.242	13400	4.1	20D	-F	1		0800	56		
	03	0800	0812	NO FLARE PATROL													
	03	2233	2252	NO FLARE PATROL													
	03	2257	2314	NO FLARE PATROL													
	04	0348	0418	NO FLARE PATROL													
	04	1615	1645	NO FLARE PATROL													
GRP61923	05	0720	0725 0735	0751	N12	E57	.855	13411	9.6	31	1N						
CATA	05	0720	0725	0800	N12	E58	.863	13411	9.7	40	1N	1		0725	112	2.3	
MANI	05	0729E	0735U	0741	N12	E57	.855	13411	9.6	12D	-F	2		0735	70	1.3	
924 HTPR	05	1321	1323	1336	N13	E45	.739	13411	8.9	15	-F		C	1323	10		
	05	1530	1555	NO FLARE PATROL													
	05	1719	1721	NO FLARE PATROL													
GRP61925	05	2325	2330+1	2342	S10	W24	.418	13400	4.2	17	-N				45	.5	H
PALE	05	2325	2331U	2342	S13	W24	.431	13400	4.2	17	-N	2	V		40		DE
MANI	05	2326E	2330U	2335D	S07	W24	.409	13400	4.2	9D	-N	1		2330	50	.6	H
926 PALE	06	0030	0033	0041	S13	W24	.431	13400	4.2	11	-F	2	V		40		
GRP61927	06	0728+7	0736 0755	0908	N04	E20	.364	13409	7.8	100	-N						FH
MANI	06	0728	0736	0737D	N04	E20	.364	13409	7.8	9D	-N	2		0736	180	2.0	FH
CATA	06	0735	0755	0920	N05	E20	.378	13409	7.8	105	1B	3		0755	225	2.5	
HTPR	06	0815E		0855	N04	E20	.364	13409	7.8	40D	-F		C	0815	30	.3	
GRP61928	06	1124+3	1126+2	1134	S09	W32	.534	13400	4.1	10	-F				15	.2	D
ATHN	06	1124	1126	1133	S09	W33	.548	13400	4.0	9	-N	4	V		16		DE
HTPR	06	1127	1128	1134	S10	W32	.536	13400	4.1	7	-F		C	1128	10	.1	D
GRP61929	06	1450	1450	1503	N11	E40	.674	13411	9.6	13	-N				50	.7	E
CATA	06	1450	1450	1505	N11	E40	.674	13411	9.6	15	-N	3		1450	56	.8	
MCHA	06	1454E		1500	N12	E41	.698	13411	9.7	6D	-N		P	1454	40	.6	E
	06	1523	1530	NO FLARE PATROL													
	06	1626	1729	NO FLARE PATROL													
	06	1734	1803	NO FLARE PATROL													
	06	1811	1823	NO FLARE PATROL													
	06	1859	1906	NO FLARE PATROL													
GRP61930	06	1915+0	1918+0	1935	N08	W34	.585	13414	4.3	20	-F				70	.9	
PALE	06	1915	1918	1935	N10	W34	.595	13414	4.3	20	-F	2	C		70		DE
PALE	06	1915	1918	1935	N07	W35	.595	13414	4.2	20	-F	2	V		70		DE

Hα SOLAR FLARES

JANUARY 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 JAN	START	MAX. PHASE	END	APPROX LAT.	APPROX LONG. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMR. DAY	MIN.		CONG.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR. AREA Sq. Deg.	
	06	1959	2006	NO FLARE PATROL													
	06	2026	2037	NO FLARE PATROL													
	06	2118	2129	NO FLARE PATROL													
931 MITK	07	0310	0323	0340	N10	W40	.671	13414	4.1	30	-N		C	0323	80	1.1	
	07	1602	1618	NO FLARE PATROL													
	07	1647	1650	NO FLARE PATROL													
	07	1705	1732	NO FLARE PATROL													
	07	2150	2158	NO FLARE PATROL													
	07	2218	2224	NO FLARE PATROL													
	08	1433	1443	NO FLARE PATROL													
	08	1500	1516	NO FLARE PATROL													
	08	2154	2305	NO FLARE PATROL													
932 MITK	09	0050	0855	0108	N06	W14	.295	13409	8.0	18	-F		C	0855	80		
	09	0121	0127	NO FLARE PATROL													
933 MANI	09	0127E	0130	0138	N05	W17	.328	13409	7.8	11D	-F	2		0130	60		
934 MANI	09	0308	0315	0325D	N06	W17	.336	13409	7.9	17D	-F	2		0315	50		
935 ABST	09	0658E	0658	0703	N16	E74	.969	13423	14.8	5D	-F		P	0658	70		
	09	1451	1507	NO FLARE PATROL													
	09	1657	1726	NO FLARE PATROL													
	09	1731	1913	NO FLARE PATROL													
	09	2003	2016	NO FLARE PATROL													
	09	2017	2023	NO FLARE PATROL													
936 PALE	09	2023E		2023D	N16	E66	.929	13423	14.8		-N	2	C				
	09	2024	2036	NO FLARE PATROL													
	09	2039	2042	NO FLARE PATROL													
	09	2220	2336	NO FLARE PATROL													
	09	2340	2346	NO FLARE PATROL													
937 CATA	10	0820	0820	0835	S10	E90	1.000	13421	17.1	15	-F	3		0820	28		
GRP61938	10	0920>9	0940+1	0959	N05	W36	.603	13409	7.7	39	-F				50	.6	
ARCE	10	0920	0940	0958	N05	W38	.630	13409	7.5	38	-N			0940	46	.6	
MONT	10	0938	0941	0959	N05	W35	.589	13409	7.8	21	-F		C	0941	50		B
GRP61939	10	1132	1134 1146	1156	N04	W36	.600	13409	7.8	24	-F						
MONT	10	1132	1146	1156	N05	W36	.603	13409	7.8	24	-F		C	1146	20		
RAMY	10	1133E	1134	1156	N04	W36	.600	13409	7.8	23D	-F	3	C		45		DE
940 RAMY	10	2000E		2119	N10	W90	1.000	13414	4.1	79D	-N	3	C				
	10	2156	2259	NO FLARE PATROL													
941 RAMY	11	2053	2104	2115	N18	E37	.678	13423	14.6	22	-F	3	C		27		
942 VORO	12	0144	0145	0151	N02	W58	.851	13409	7.7	7	-B		C	0145	45		
943 VORO	12	0314	0318	0327	N02	W58	.851	13409	7.8	13	-B		C	0318	81	1.5	
GRP61944	12	0706+4	0709+8 0717	0728	N04	E50	.773	13422	16.0	22	-N				70	1.1	U
ATHN	12	0706	0709	0728	N07	E48	.757	13422	15.9	22	-N	3	V		96		U
ATHN	12	0707	0709	0727	N03	E50	.771	13422	16.0	20	-N	2	C		48		U F
TACH	12	0710	0717	0732	N02	E52	.792	13422	16.2	22	-N		C	0717	133	2.2	E
GRP61945	12	1032+5	1042+2	1052	N06	W66	.918	13409	7.5	20	-N						DJ
HTPR	12	1032	1044	1050	N07	W66	.919	13409	7.5	18	-N		C	1044	20		
ABST	12	1037	1042	1053	N05	W66	.918	13409	7.5	16	1F		C	1042	87	2.1	DJ
946 ABST	12	1137 IMP.1	1140 NO	1158D HTPR2	N03 ATHN1	W68 RAMY1	.929	13409	7.4	21D	?F		P	1140	87		
	12	1751	1804	NO FLARE PATROL													
	12	1950	2000	NO FLARE PATROL													
947 RAMY	12	2053	2114U	2118	N16	E24	.518	13423	14.7	25	-F	3	C		36		
948 RAMY	12	2112E	2114U	2133D	N06	E41	.672	13422	16.0	21D	-F	3	C		45		

Hα SOLAR FLARES

JANUARY 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS		MEASUREMENTS			REMARKS
	DATE 1975 JAN	START	MAX. PHASE	END	APPROX LAT.	APPROX LONG. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		CONC	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
GRP61949	12	2246E	2248+0	22520	N16	E25	.529	13423	14.8	6	-F		C		30	.4	
PALE	12	2246E	2248U	22490	N16	E25	.529	13423	14.8	30	-F	2	C		30		DE
PALE	12	2247E	2248U	22520	N16	E25	.529	13423	14.8	50	-F	3	V		30		DE
	12	2252	2330	NO FLARE PATROL													
950 MITK	12	2333	2334	2350	N17	E23	.516	13423	14.7	17	-N		C	2334	50		
951 MITK	13	0038	0041	0045	N17	E23	.518	13423	14.8	7	-F		C	0041	50		
GRP61952	13	0049+4	0056+2	0114	N17	E22	.507	13423	14.7	25	-B				80	.9	DJ
MITK	13	0049	0058	0119	N17	E22	.507	13423	14.7	30	-B		C	0058	80	1.0	D
VORO	13	0053	0056	0109	N17	E21	.496	13423	14.6	16	-B		C	0056	90	1.0	DJ
MANI	13	0101E	0101U	01060	N18	E23	.527	13423	14.8	50	-N	2		0101	60	.7	
953 CATA	13	0750	0750	0755	N17	E20	.486	13423	14.8	5	-N	3		0750	28		
954 HTPR	13	1154		12140	N04	E35	.587	13422	16.1	200	-F		C	1212	50		
	13	1523	1747	NO FLARE PATROL													
	13	1923	1924	NO FLARE PATROL													
	13	2155	2204	NO FLARE PATROL													
955 ABST	14	0717	0720	0728	N03	E23	.409	13422	16.0	11	-F		C	0720	157	1.8	
GRP61956	14	0805+4	0805+5	0815	N17	E07	.383	13423	14.9	10	-F						EJV
CATA	14	0805	0805	0815	N17	E07	.383	13423	14.9	10	-F	3		0805	56	.6	
ABST	14	0809	0810	0814	N17	E07	.383	13423	14.9	5	-F		C	0810	140	1.5	EJV
GRP61957	14	0940+0	0943+2	1003	N17	E06	.379	13423	14.9	23	-N						FJK
ABST	14	0940	0943	1010	N17	E06	.379	13423	14.9	30	-N		C	0943	157	1.7	FJK
CATA	14	0940	0945	0955	N17	E06	.379	13423	14.9	15	-N	3		0945	56	.6	
958 ABST	14	1046	1053	1101	N04	E21	.385	13422	16.0	15	-F		C	1053	87	1	
959 PALE	14	2010	2014U	2028	N02	E15	.281	13422	16.0	18	-F	3	C		100		
	14	2158	2230	NO FLARE PATROL													
	14	2250	2256	NO FLARE PATROL													
	14	2259	2338	NO FLARE PATROL													
	15	1722	1727	NO FLARE PATROL													
	15	2032	2116	NO FLARE PATROL													
	15	2123	2225	NO FLARE PATROL													
	15	2258	2310	NO FLARE PATROL													
	16	0425	0430	NO FLARE PATROL													
960 MANI	16	0552	0601	0633	N02	W05	.145	13422	15.9	41	-N	2		0601	190	2.0	
961 ABST	16	0704E	0709	0727	N02	W08	.180	13422	15.7	230	-F		P	0709	87		
	16	1955	2027	NO FLARE PATROL													
	16	2044	2138	NO FLARE PATROL													
	16	2140	2201	NO FLARE PATROL													
	16	2203	2209	NO FLARE PATROL													
	16	2257	2317	NO FLARE PATROL													
	16	2337	2340	NO FLARE PATROL													
GRP61962	17	0155>9	0215+3	0246	N01	W20	.355	13422	15.6	51	-F				100	1.1	H
MITK	17	0155	0215	0245	N01	W21	.371	13422	15.5	50	-F		C	0215	80	.9	DH
PALE	17	0214	0218	0246	N02	W19	.344	13422	15.7	32	-F	3	C		123		F
	17	2201	2220	NO FLARE PATROL													
	17	2303	2305	NO FLARE PATROL													
963 ABST	18	0609	0613	0617	N12	E23	.476	13439	20.8	8	-F		C	0613	140	1.6	
964 ABST	19	0635	0636	06410	N15	W61	.896	13423	14.7	60	-F		P	0636	96	2.0	
GRP61965	19	0718+2	0720+2	0734	N17	W64	.920	13423	14.5	16	-N				90		DKL
ABST	19	0718	0720	0740	N17	W60	.892	13423	14.8	22	-B		C	0720	96	2.0	DK
TACH	19	0720	0722	0728	N18	W68	.945	13423	14.2	8	-N		C	0722	88		DL
966 ABST	19	0802E	0803	0812	N03	W47	.739	13422	15.8	100	-F		P	0803	96	1.4	
967 ABST	19	0855	0901	0906	N03	W48	.750	13422	15.8	11	-F		C	0901	87	1.3	

Hα SOLAR FLARES

JANUARY 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 JAN	START	MAX. PHASE	END	APPROX LAT.	APPROX LNG. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMR DAY	MIN		CONC	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg	
GRP61968	19	1037+1	1045+1	1059	N02	W49	.760	13422	15.8	22	-F						DGJ
HTPR	19	1037	1046	1058	N03	W50	.772	13422	15.7	21	-F		C	1046	20	.3	
ABST	19	1038	1045	1059	N02	W49	.760	13422	15.8	21	-F		C	1045	70	1.1	DGJ
969 HTPR	19	1147	1148	1150	N03	W50	.772	13422	15.7	3	-F		C	1148	10		
970 HTPR	19	1200	1201	1220	N03	W51	.783	13422	15.7	20	-F		C	1201	10		
971 HTPR	19	1346	1347	1348	N07	E06	.231	13439	20.0	2	-F		C	1347	20		
972 MONT	20	1013	1017	1020	N07	W02	.211	13439	20.3	7	-F		C	1017	20		
973 ABST	20	1030	1032	1037	N07	W02	.211	13439	20.3	7	-F		C	1032	79		
GRP61974	21	0802+1	0805 0815	0827	N09	E31	.559	13438	23.7	25	-F						EJ
ABST	21	0802	0805	0829	N09	E32	.572	13438	23.7	27	-F		C	0805	122	1.5	EJ
MANI	21	0803	0815	0825	N09	E31	.559	13438	23.7	22	-F	2		0815	80	1.0	E
	21	2156	2211	NO FLARE PATROL													
	21	2215	2222	NO FLARE PATROL													
	21	2226	2306	NO FLARE PATROL													
	22	0401	0510	NO FLARE PATROL													
975 HTPR	22	1346	1346	1352	N08	W35	.606	13439	19.9	6	-F		C	1347	30		
976 HTPR	22	1350	1421	1435	N16	W78	.985	13422	16.7	45	-F		C	1421	30		
977 HTPR	22	1354	1358	1430	N07	W36	.615	13439	19.9	36	-F		C	1358	30		
978 HTPR	22	1442	1500	1537	N16	W80	.990	13422	16.6	55	-F		C	1500	20		
979 HTPR	22	1554		1602D	N16	W81	.992	13422	16.6	80	-F		C	1556	30		
	23	0817	0934	NO FLARE PATROL													
	23	1002	1009	NO FLARE PATROL													
	23	1021	1107	NO FLARE PATROL													
	23	1122	1134	NO FLARE PATROL													
	23	2332	2352	NO FLARE PATROL													
	24	0002	0029	NO FLARE PATROL													
980 ABST	24	0715	0718	0728	N06	W57	.848	13439	20.0	13	-F		C	0718	114	2.0	
	24	1140	1145	NO FLARE PATROL													
	24	1511	1535	NO FLARE PATROL													
	24	2043	2110	NO FLARE PATROL													
	24	2116	2330	NO FLARE PATROL													
	25	1331	1355	NO FLARE PATROL													
	25	1400	1403	NO FLARE PATROL													
	25	1410	1424	NO FLARE PATROL													
	25	1436	1607	NO FLARE PATROL													
	26	1620	1730	NO FLARE PATROL													
	26	2120	2218	NO FLARE PATROL													
	27	1135	1140	NO FLARE PATROL													
	27	1400	1403	NO FLARE PATROL													
	27	1755	1932	NO FLARE PATROL													
	27	1936	2029	NO FLARE PATROL													
	28	1315	1402	NO FLARE PATROL													
	28	1405	1429	NO FLARE PATROL													
	29	1148	1225	NO FLARE PATROL													
	29	1239	1246	NO FLARE PATROL													
	29	1300	1308	NO FLARE PATROL													
	29	1313	1347	NO FLARE PATROL													
	29	1414	1433	NO FLARE PATROL													
	29	1610	1629	NO FLARE PATROL													
	29	1815	2114	NO FLARE PATROL													
	29	2129	2145	NO FLARE PATROL													
981 HTPR	30	1419	1424	1431	N07	E54	.823	13459	3.6	12	-F		C	1424	20		
	30	1826	1828	NO FLARE PATROL													
	30	1832	1836	NO FLARE PATROL													
	30	1841	1845	NO FLARE PATROL													
	30	1858	1855	NO FLARE PATROL													
	30	1902	1916	NO FLARE PATROL													
	31	1520	1521	NO FLARE PATROL													
	31	1624	1631	NO FLARE PATROL													

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FEBRUARY 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS		MEASUREMENTS			REMARKS
	DATE 1975 FEB	START	MAX. PHASE	END	APPROX LAT.	APPROX MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMR DAY	MIN.		CONC	TYPE	TIME UT	MEAS. AREA Millionths of Disk	CORR AREA Sq. Deg.	
	02	1020	1038	NO FLARE PATROL													
	02	1228	1234	NO FLARE PATROL													
982 RAMY	02	1310	1314	1340	S12	E61	.878	13465	7.1	30	-F	4	C		36		
GRP61983	02	1509+1	1511	1518	S12	E62	.878	13465	7.3	9	-F						D
HUAN	02	1509		1516	S13	E63	.886	13465	7.4	7	-F	1	C				
MCMA	02	1510	1511	1520	S12	E62	.878	13465	7.3	10	-N		C	1511	25	.5	D
984 MCMA	02	1720	1724	1731	S12	E60	.861	13465	7.2	11	-F		C	1724	25		
	02	2307	2324	NO FLARE PATROL													
985 ABST	03	0840	0848	0901	S07	E61	.871	13465	7.9	21	-N		C	0848	87	1.7	
986 ABST	03	0920	0926	0935	S06	E62	.879	13465	8.0	15	-F		C	0926	96	1.9	
GRP61987	03	1020	1022+3	1028	S10	E58	.843	13465	7.8	8	-F						K
HTPR	03	1020	1024	1027	S09	E58	.843	13465	7.8	7	-F		C				
HTPR	03	1020	1022	1027	S09	E58	.843	13465	7.8	7	-F		C	1022	10	.2	K
HTPR	03	1025	1025	1028	S12	E60	.861	13465	7.9	3	-F		C	1025	10	.2	
GRP61988	03	1028	1032	10550	S09	E58	.843	13465	7.8	27	-F						
HTPR	03	1028	1032	10550	S08	E59	.853	13465	7.9	270	-F		C	1032	20	.4	
HTPR	03	1052		10550	S10	E57	.834	13465	7.7	30	-F		C	1052	10	.2	
989 HTPR	03	1031		10550	S12	E48	.740	13465	7.0	240	-F		C	1034	20		
990 HTPR	03	1128	1129	1130	S10	E57	.834	13465	7.8	2	-F		C	1129	10		
991 HTPR	03	1133	1134	1142	S10	E57	.834	13465	7.8	9	-N		C	1134	30		
GRP61992	03	1205	1207	1208	S09	E57	.834	13465	7.8	3	-F						
HTPR	03	1205	1207	1208	S08	E58	.844	13465	7.9	3	-F		C	1207	10	.2	
HTPR	03	1206	1208	1208	S10	E56	.824	13465	7.7	2	-F		C	1208	10	.2	
993 HTPR	03	1211	1215	1235	S08	E58	.844	13465	7.9	24	-N		C	1215	10		
994 HTPR	03	1220	1223	1227	N01	E90	1.000	13470	10.3	7	-F		C	1223	10		
995 HTPR	03	1236		12570	N01	E90	1.000	13470	10.3	210	-F		C	1239	20		
996 HTPR	03	1245	1246	1247	S10	E56	.824	13465	7.7	2	-F		C	1246	10		
GRP61997	03	1248+1	1249+1	1257	S08	E56	.825	13465	7.7	9	-N				35	.6	H
RAMY	03	1248	1249	1257	S07	E56	.825	13465	7.7	9	-F	3	C		27		DE H
HTPR	03	1249	1250	1257	S10	E56	.824	13465	7.7	8	-B		C	1250	40	.7	
998 HTPR	03	1435	1437	1441	S08	E57	.834	13465	7.9	6	-F		C	1437	10		
GRP61999	03	1515+2	1516+2 1526	1534	S08	E57	.834	13465	7.9	19	-N				30	.6	EK
RAMY	03	1515	1518	1533	S06	E58	.845	13465	8.0	18	-F	3	C		20		DE
HTPR	03	1515	1516	1535	S08	E56	.825	13465	7.8	20	-B		C	1516	20	.3	EK
HTPR	03	1515	1526	1535	S08	E56	.825	13465	7.8	20	-B		C				
MCMA	03	1516	1518	1529	S08	E58	.844	13465	8.0	13	-N		C	1518	35	.6	E
BOUL	03	1517	1518	1539	S09	E57	.834	13465	7.9	22	-F	2	C	1518	32	.6	
000 HTPR	03	1536	1548	1553	S12	E45	.704	13465	7.0	17	-F		C	1548	20		
GRP62001	03	1547+4	1552+0	1557	S10	E55	.814	13465	7.8	10	-F				20	.3	
BOUL	03	1547	1552	1600	S10	E56	.824	13465	7.9	13	-F	2	C	1552	21	.4	
HTPR	03	1551	1552	1554	S10	E55	.814	13465	7.8	3	-N		C	1552	20	.3	
	04	1537	1539	NO FLARE PATROL													
002 RAMY	04	2156	2157	22060	N04	E64	.904	13470	9.7	100	-F	2	C		36		
003 MANI	05	0049	0052	0057	N02	E64	.902	13470	9.8	8	-N	2		0052	50	1.0	
004 MANI	05	0655	0657	0714	N03	E62	.888	13470	9.9	19	-F	2		0657	40		
005 HUAN	05	1324	1330	1335	N02	E54	.815	13470	9.6	11	-F	1	C	1330	25		

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IMPOR-TANCE	OBS		MEASUREMENTS			REMARKS
	DATE 1975 FEB	START	MAX. PHASE	END	APPROX LAT.	APPROX MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMR DAY	MIN.		CONG	TYPE	TIME UT	MEAS. AREA Millionths of Sun	CORR AREA Sq. Deg.	
GRP62006	05	1352+2	1352+4	1402	N03	E54	.816	13470	9.6	10	-N				40	.7	EH
MEUD	05	1352	1352	1358	N02	E56	.834	13470	9.8	6	-F		C	1352	30	.5	
HUAN	05	1352	1354	1358	N02	E54	.815	13470	9.6	6	-N	1	C	1354	45	.8	
RAMY	05	1354	1356	1406	N04	E53	.808	13470	9.6	12	-N	3	C		36		DE H
HERS	05	1356E	1356	1409	N03	E54	.816	13470	9.6	13D	-N		P	1356	43	.8	E
007 HUAN	05	1432	1438	1443	N02	E53	.804	13470	9.6	11	-F	2	C	1438	50		
GRP62008	05	1510+1	1513+1	1525	S10	E26	.438	13465	7.6	15	-F				35	.4	E
RAMY	05	1510	1514	1528	S09	E26	.437	13465	7.6	18	-F	3	C		27		DE
HUAN	05	1511	1513	1522	S11	E26	.448	13465	7.6	11	-F	1	C	1513	40	.5	E
GRP62009	05	1531+1	1533+3	1539	N03	E54	.816	13470	9.7	8	-N				40	.7	EH
RAMY	05	1531	1536	1548	N04	E52	.798	13470	9.5	17	-N	3	C		27		DE H
MEUD	05	1532	1533	1537	N02	E55	.824	13470	9.8	5	-F		C	1533	30	.5	
HUAN	05	1532	1536	1539	N02	E54	.815	13470	9.7	7	-N	2	C	1536	50	.9	E
010 HUAN	05	1557	1600	1606	N02	E54	.815	13470	9.7	9	-F	1	C	1600	40		
GRP62011	05	1639+4	1645+2	1658	N03	E52	.796	13470	9.6	19	-F				60	1.0	
HUAN	05	1639	1645	1659	N02	E53	.804	13470	9.7	20	-N	1	C	1645	75	1.2	
RAMY	05	1643	1647	1657	N04	E51	.787	13470	9.5	14	-F	3	C		54		DE
GRP62012	05	1753+2	1758+5	1821	N03	E53	.806	13470	9.7	28	-B				90	1.5	H
HUAN	05	1735		1757D	N02	E52	.794	13470	9.6	22D	-B	1	P	1756	40	.7	
RAMY	05	1753	1758	1814	N04	E50	.777	13470	9.5	21	-N	3	C		63		F
PALE	05	1755	1803	1821	N04	E56	.837	13470	9.9	26	1B	2	V		120		DE H
PALE	05	1755	1803	1821	N04	E56	.837	13470	9.9	26	1B	2	C		120		DE H
013 HUAN	05	1853		1910D	N02	E52	.794	13470	9.7	17D	-N	1	P	1910	35		
GRP62014	05	1911+0	1913+5	1928	N04	E52	.798	13470	9.7	17	-B						EH
PALE	05	1911	1918	1932	N04	E55	.828	13470	9.9	21	-B	3	V		80		DE H
RAMY	05	1911	1913	1922	N04	E49	.766	13470	9.5	11	-B	3	C		27		DE H
PALE	05	1913E	1918	1932	N04	E53	.808	13470	9.8	19D	-B	3	C		90		DE H
RAMY	05	1914E	1915	1923	N04	E51	.787	13470	9.6	9D	-B	4	V		25		DE H
RAMY	05	1914E	1915	1923	N04	E51	.787	13470	9.6	9D	-B	4	C		25		DE H
	05	2033	2100	NO FLARE PATROL													
GRP62015	05	2100E	2103+2	2121D	N02	E51	.784	13470	9.7	21	-F				50	.8	
PALE	05	2100E	2103U	2104D	N02	E51	.784	13470	9.7	4D	-F	2	C		50		DE
PALE	05	2101E	2105U	2121D	N03	E51	.785	13470	9.7	20D	-F	2	V		50		DE
	05	2105	2127	NO FLARE PATROL													
016 RAMY	05	2132	2133	2140	N04	E47	.744	13470	9.4	8	-F	2	C		20		
017 RAMY	05	2203	2204	2207D	N04	E46	.732	13470	9.4	4D	-F	2	C		27		
	05	2207	2214	NO FLARE PATROL													
018 MANI	05	2250E	2250U	2301	N03	E50	.775	13470	9.7	11D	-F	1		2250	40		
019 MANI	06	0227	0229	0248	N03	E49	.764	13470	9.8	21	-F	2		0229	30		
GRP62020	06	0250+4	0259+1	0310	N02	E49	.762	13470	9.8	20	-F				40	.6	
MANI	06	0250	0259	0310	N03	E49	.764	13470	9.8	20	-F	2		0259	30	.4	
PALE	06	0254	0259	0309	N02	E48	.751	13470	9.7	15	-F	2	C		45		DE
PALE	06	0256E	0300S	0306D	N02	E49	.762	13470	9.8	10D	-F	2	V		40		DE
GRP62021	06	0510	0514 0538	0542D	N03	E46	.730	13470	9.7	32	-F						H
MANI	06	0510	0514U	0542D	N03	E46	.730	13470	9.7	32D	-F	2		0514	40	.6	H
MANI	06	0510	0538	0542D	N03	E46	.730	13470	9.7	32D	-F			0538	60	.9	
	06	0556	0600	NO FLARE PATROL													
	06	0726	0731	NO FLARE PATROL													
022 MONT	06	0940	0942	0946	N02	E43	.691	13470	9.6	6	-F		C	0942	20		
023 MONT	06	1053	1056	1105	S10	E22	.376	13465	8.1	12	-N		C	1056	60		
024 MONT	06	1225	1225	1230	N03	E40	.656	13470	9.5	5	-F		C	1225	20		
025 BOUL	06	1451	1455	1501	N01	E38	.624	13470	9.5	10	-F	1	C	1455	32		
026 CATA	06	1500	1520	1555	N01	E40	.651	13470	9.6	55	-N	3		1520	56		

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 FEB	START	MAX. PHASE	END	APPROX LAT.	APPROX MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMR DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Millionths of Disk	CORR AREA Sq. Deg.	
027 HUAN	06	1731E		1737	N02	E41	.666	13470	9.8	60	-F	1	P	1733	35		
GRP62028	06	1810+1	1813 1832	1913	N03	E40	.656	13470	9.8	63	-F						
HUAN	06	1810		1922	N02	E39	.640	13470	9.7	72	-F	1	C	1852	40	.5	
PALE	06	1811	1832	1913	N04	E39	.647	13470	9.7	62	-N	2	C		35		DE
PALE	06	1811	1813	1845	N04	E43	.697	13470	10.0	34	-F	3	V		40		DE
029 HUAN	06	1925		1928D	N02	E37	.614	13470	9.6	30	-F	1	P	1927	30		
GRP62030	07	0210	0213+S	02250	N03	E34	.577	13470	9.6	15	-N				100	1.2	J
VORO	07	0210	0215	0225	N04	E34	.581	13470	9.6	15	-B		C	0215	99	1.2	EJ
KODA	07	0211E	0218	0426	N03	E33	.563	13470	9.6	1350	-N		P	0218	191	2.8	D
MANI	07	0213E	0213U	02160	N03	E36	.604	13470	9.8	30	-F	1		0213	80	1.8	F
031 HTPR	07	0959E		1012D	N03	E31	.535	13470	9.7	130	-F		C	0959	10		
032 HTPR	07	1041E		1048D	N03	E30	.521	13470	9.7	70	-N		C	1048	20		
033 WEND	07	1130		1142	N03	E28	.492	13470	9.6	12	-N						
034 WEND	07	1206		1220	N02	E27	.473	13470	9.5	14	-N						
035 WEND	07	1349		1401	N02	E27	.473	13470	9.6	12	-F						
GRP62036	07	1418+1	1420	1429	N02	E27	.473	13470	9.6	11	-N						D
WEND	07	1418		1432	N02	E27	.473	13470	9.6	14	-B						
MCMA	07	1419	1420	1425	N03	E27	.478	13470	9.6	6	-F		C	1420	25	.3	D
037 WEND	07	1452		1508	N02	E25	.444	13470	9.5	8	-N						
	07	1605	1836	NO FLARE PATROL													
GRP62038	07	1925+1	1927+1	1932	S12	W05	.130	13465	7.4	7	-F				30	.3	EU
MCMA	07	1925	1927	1931	S12	W04	.119	13465	7.5	6	-F		P	1927	30	.3	E
PALE	07	1926	1928	19300	S12	W06	.142	13465	7.4	40	-F	3	C		35		U
PALE	07	1926	1928	1933	S12	W04	.119	13465	7.5	7	-F	3	V		30		U
	07	1940	1947	NO FLARE PATROL													
	07	1949	2012	NO FLARE PATROL													
	07	2028	2120	NO FLARE PATROL													
	07	2343	2353	NO FLARE PATROL													
039 HTPR	08	0742	0750	0754	N02	E18	.340	13470	9.7	12	-F		C	0750	20		
040 HTPR	08	0812	0814	0821	S15	W14	.279	13465	7.3	9	-F		C	0814	10		
041 HTPR	08	0831	0834	0902	S15	W14	.279	13465	7.3	31	-F		C	0834	10		
042 HTPR	08	0958	1004	1015	S15	W13	.265	13465	7.4	17	-F		C	1004	20		
GRP62043	08	1030	1032 1100	1126	S15	W15	.293	13465	7.3	56	-F						
HTPR	08	1030	1032	1105	S15	W16	.307	13465	7.2	35	-F		C	1042	10	.1	
HTPR	08	1030	1042	1105	S15	W16	.307	13465	7.2	35	-F		C				
HTPR	08	1049	1100	1126	S15	W13	.265	13465	7.5	37	-F		C	1100	20	.2	
044 HTPR	08	1120	1150	1210	N06	E15	.334	13470	9.6	50	-F		C	1150	10		
GRP62045	08	1137	1202 1218	1234	S15	W12	.251	13465	7.6	57	-F						E
HTPR	08	1137	1202	1208	S15	W13	.265	13465	7.5	31	-F		C	1202	10	.1	
HTPR	08	1155	1218	1234	S15	W12	.251	13465	7.6	39	-F		C	1218	20	.2	E
046 HTPR	08	1505	1505	1510	N05	E12	.285	13470	9.5	5	-F		C	1505	10		
	08	2222	2255	NO FLARE PATROL													
047 HTPR	09	1034	1036	1038	N05	W04	.211	13470	9.1	4	-F		C	1036	10		
	09	2022	2028	NO FLARE PATROL													
	09	2127	2131	NO FLARE PATROL													
	09	2226	2234	NO FLARE PATROL													
	10	2015	2305	NO FLARE PATROL													
	10	2312	2334	NO FLARE PATROL													
	11	0041	0048	NO FLARE PATROL													
	11	0105	0135	NO FLARE PATROL													
	11	0143	0150	NO FLARE PATROL													
	11	0210	0215	NO FLARE PATROL													

Hα SOLAR FLARES

FEBRUARY 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 FEB	START	MAX. PHASE	END	APPROX LAT.	APPROX LONG. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		CONC.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR. AREA Sq. Deg.	
GRP62048	11	1301+1	1303+3	1317	N03	W27	.479	13470	9.5	16	-F				50	.6	E
RAMY	11	1301	1306	1316	N03	W27	.479	13470	9.5	15	-F	4	C		63		DE
ATHN	11	1301	1303	1307	N04	W27	.484	13470	9.5	6	-F	4	V		48		DE
ATHN	11	1301	1303	1307	N04	W27	.484	13470	9.5	6	-F	5	C		48		DE
HUAN	11	1302	1303	1330	N04	W29	.513	13470	9.4	28	-N	1	C	1303	40	.5	E
LVOV	11	1305E	1306D	1315	N04	W26	.470	13470	9.6	10D	1F		P	1306	400	4.7	E
HENO	11	1315E		1340	N02	W26	.459	13470	9.6	25D	1N		P		500	5.5	
	11	1552	1600	NO FLARE PATROL													
	11	2025	2240	NO FLARE PATROL													
	11	2246	0125	NO FLARE PATROL													
	12	2121	2129	NO FLARE PATROL													
	12	2132	2143	NO FLARE PATROL													
	12	2149	2201	NO FLARE PATROL													
	12	2205	2234	NO FLARE PATROL													
	13	0402	0725	NO FLARE PATROL													
GRP62049	13	1303+7	1311+2	1335	N04	W55	.828	13470	9.4	32	-N				80	1.4	E
LVOV	13	1303	1311D	1330	N04	W54	.819	13470	9.5	27	1F		C	1311	250	4.5	E
RAMY	13	1308	1313	1332	N03	W55	.827	13470	9.4	24	-N	4	C		63		F
HTPR	13	1310	1312	1338	N05	W59	.866	13470	9.1	28	-B		C	1312	80	1.3	E
MCMA	13	1310E		1340	N04	W54	.819	13470	9.5	30D	-N		C	1311	80	1.4	E
GRP62050	13	1435+1	1437+1	1452	N04	W57	.847	13470	9.3	17	-N				50	.9	EK
RAMY	13	1435	1437	1452	N03	W56	.836	13470	9.4	17	-F	3	C		54		F
MCMA	13	1435	1437	1450	N04	W56	.838	13470	9.4	15	-N		C	1437	80	1.5	E
HTPR	13	1436	1438	1500	N05	W60	.875	13470	9.1	24	-N		C	1438	20	.3	EK
051 HTPR	13	1458		1601D	N05	W62	.891	13470	9.0	63D	-F		C	1501	10		
052 HTPR	13	1455	1500	1505	S10	W78	.975	13465	7.8	10	-F		C	1500	10		
053 BOUL	13	2011	2019	2049D	N03	W58	.855	13470	9.5	38D	-N	3	P	2019	96	1.8	
	13	2049	2057	NO FLARE PATROL													
	13	2100	2120	NO FLARE PATROL													
	13	2159	2206	NO FLARE PATROL													
	13	2248	2255	NO FLARE PATROL													
	13	2329	2332	NO FLARE PATROL													
	13	2336	0118	NO FLARE PATROL													
	14	1514	1515	NO FLARE PATROL													
	14	1535	1539	NO FLARE PATROL													
	14	1550	1601	NO FLARE PATROL													
	14	1704	1713	NO FLARE PATROL													
	14	2146	2153	NO FLARE PATROL													
	15	0401	0404	NO FLARE PATROL													
	15	2000	2004	NO FLARE PATROL													
	15	2021	2025	NO FLARE PATROL													
	15	2124	2154	NO FLARE PATROL													
	15	2200	2209	NO FLARE PATROL													
	17	1739	1750	NO FLARE PATROL													
	17	2218	2220	NO FLARE PATROL													
	20	0440	0443	NO FLARE PATROL													
	20	0620	0705	NO FLARE PATROL													
	20	0715	0725	NO FLARE PATROL													
	20	0735	0745	NO FLARE PATROL													
	20	0815	0820	NO FLARE PATROL													
054 HTPR	20	1248	1252	1254	N10	W01	.293	13499	20.5	6	-F		C	1252	20		
055 HTPR	20	1305	1320	1325	N10	W02	.294	13499	20.4	20	-F		C	1320	20		
056 HTPR	20	1404	1408	1437	N10	W03	.297	13499	20.4	33	-F		C	1408	20		
	20	2135	2142	NO FLARE PATROL													
	20	2250	0000	NO FLARE PATROL													
	21	0720	0725	NO FLARE PATROL													
	21	2206	2214	NO FLARE PATROL													
	21	2220	2227	NO FLARE PATROL													
	21	2232	2254	NO FLARE PATROL													
	21	2315	2347	NO FLARE PATROL													
	22	0005	0013	NO FLARE PATROL													
	22	0022	0043	NO FLARE PATROL													
	22	0048	0231	NO FLARE PATROL													
057 HTPR	22	1057E		1106	N02	W02	.161	13503	22.3	9D	-F		C	1057	10		

Hα SOLAR FLARES

FEBRUARY 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 FEB	START	MAX. PHASE	END	APPROX LAT.	APPROX MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMR DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
058 HTPR	22	1318	1320	1333	N02	W04	.172	13503	22.3	15	-F		C	1318	20		
059 HTPR	23	1400	1405	1408	S10	E16	.277	13506	24.8	8	-F		C	1405	20		
	23	2022	2033	NO FLARE PATROL													
	23	2038	2100	NO FLARE PATROL													
	23	2230	2256	NO FLARE PATROL													
	23	2332	2339	NO FLARE PATROL													
	24	0002	0013	NO FLARE PATROL													
	24	0019	0027	NO FLARE PATROL													
	24	0056	0123	NO FLARE PATROL													
060 HTPR	24	0800	0816	0820	S09	E04	.076	13506	24.6	20	-F		C	0816	40		
061 HTPR	24	0830	0851	0857	S09	E03	.061	13506	24.6	27	-F		C	0851	30		
	25	0337	0400	NO FLARE PATROL													
	25	0450	0714	NO FLARE PATROL													
	26	2050	2057	NO FLARE PATROL													
062 TEHR	27	0418E	0422	0429	S08	W31	.511	13506	24.9	110	-F	4	V		60		
063 MEUD	27	1010		1025	S07	W37	.598	13506	24.6	15	-F	*	C	1016	30		
	28	1652	1719	NO FLARE PATROL													

Hα SOLAR FLARES

MARCH 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 MAR	START	MAX. PHASE	END	APPROX LAT.	APPROX WEST DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		CONC	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
64 KHAR	02	1149E		1149D	N16	W22	.528	13517	28.8		-F		P				
	02	1734	1735	NO FLARE PATROL													
	02	1819	1822	NO FLARE PATROL													
65 KHAR	03	1140E	1145	1155D	N17	W38	.703	13517	28.6	15D	-F		P	1145	80	1.4	
	03	1618	1722	NO FLARE PATROL													
	03	1730	1909	NO FLARE PATROL													
	03	1914	2014	NO FLARE PATROL													
	03	2020	2024	NO FLARE PATROL													
66 HTPR	04	1542E		1657D	N12	W57	.865	13517	28.4	75D	-F		C	1648	30	.5	
	04	2008	2010	NO FLARE PATROL													
67 RAMY	05	1918	1919	1932	N12	W73	.966	13517	28.3	14	-F	2	C		27		
68 HTPR	06	1150	1151	1201	N07	E70	.947	13527	11.7	11	-F		C	1151	10		
	09	0316	0328	NO FLARE PATROL													
	09	0330	0338	NO FLARE PATROL													
	10	1411	1446	NO FLARE PATROL													
	10	1512	1524	NO FLARE PATROL													
	11	1859	1915	NO FLARE PATROL													
GRP62069	12	0039+1	0040+5	0052	S13	W31	.516	13532	9.7	13	-N				80	.9	
PALE	12	0039	0045	0052	S13	W30	.501	13532	8.8	13	-F	3	C		65		DE
MANI	12	0039E	0040U	0055	S14	W31	.518	13532	9.7	16D	-N	2		0040	90	1.0	F
PALE	12	0040	0045	0052	S13	W30	.501	13532	9.8	12	-N	3	V		70		DE
MITK	12	0040E		0049D	S13	W32	.530	13532	9.6	9D	-N		P	0040	80	1.0	E
GRP62070	12	0310	0312+0	0328	S13	W32	.530	13532	9.7	18	-N				120	1.4	FH
MANI	12	0310	0312	0327	S14	W32	.532	13532	9.7	17	-N	2		0312	120	1.4	H
TEHR	12	0312E	0312U	0328	S13	W32	.530	13532	9.7	16D	-N	2	V		115		F
71 ABST	12	0607	0634	0647D	S13	W36	.586	13532	9.6	40D	-F		P	0634	87	1.1	
72 MANI	12	0847	0850	0904	S14	W37	.601	13532	9.6	17	-F	2		0850	30	.3	
GRP62073	12	0917+2	0924	0935	S13	W35	.572	13532	9.8	18	-N				80	1.0	
MANI	12	0917	0920U	0920D	S14	W37	.601	13532	9.6	3D	-N	2		0920	80	1.0	
TEHR	12	0919	0924	0935	S13	W34	.556	13532	9.8	16	-N	3	V		75		
GRP62074	12	1343+0	1346+1 1355+0	1421	S13	W38	.613	13532	9.7	38	-N				160	2.0	IU
ATHN	12	1343	1347	1414	S13	W39	.626	13532	9.6	31	-N	2	V		192		U F
ATHN	12	1343	1347	1414	S13	W39	.626	13532	9.6	31	-N	2	C		192		U F
RAMY	12	1343	1346	1425	S15	W37	.603	13532	9.8	42	-N	4	C		108		F
RAMY	12	1350E	1355	1419	S13	W37	.600	13532	9.8	29D	1F	4	C		210		DE
RAMY	12	1350E	1355D	1355D	S13	W37	.600	13532	9.8	5D	1F	4	V		210		DE
HTPR	12	1411E		1427D	S13	W38	.613	13532	9.7	16D	-N		C	1412	80	1.0	EI
HUAN	12	1411E		1423	S13	W36	.586	13532	9.9	12D	-F		P	1411	85	1.1	E
GRP62075	12	1647+1	1653	1706	S14	W39	.628	13532	9.8	19	-F						F
HUAN	12	1647E		1654D	S13	W40	.640	13532	9.7	7D	-F		P				
RAMY	12	1648	1653	1706	S15	W39	.629	13532	9.8	18	-F	3	C		90		F
76 HUAN	12	1722		1725D	S13	W40	.640	13532	9.7	3D	-F		P				
GRP62077	12	1633E	1847+0	1906	S13	W41	.652	13532	9.7	33	-F				40	.5	
PALE	12	1833E	1847	1852	S13	W41	.652	13532	9.7	19D	-F	2	C		35		DE
PALE	12	1834E	1847U	1919D	S13	W41	.652	13532	9.7	45D	-F	2	V		40		DE
GRP62078	12	1913+4	1920+0	1928	S14	W40	.641	13532	9.8	15	-F				30	.4	
BOUL	12	1913	1920	1942	S15	W38	.616	13532	10.0	29	-F	2	C	1920	21	.3	
HUAN	12	1914		1922	S13	W41	.652	13532	9.7	8	-F		P				
RAMY	12	1917	1920	1928	S15	W41	.655	13532	9.7	11	-F	3	C		36		DE
GRP62079	12	2237+1	2240+3	2256	S14	W43	.679	13532	9.7	19	-F				30	.4	F
BOUL	12	2237	2243	2300	S15	W42	.667	13532	9.8	23	-F	2	C	2243	32	.4	
MANI	12	2238	2240	2252	S13	W44	.690	13532	9.6	14	-N	1		2240	30	.4	F
80 MANI	13	0027	0035	0048	S13	W43	.678	13532	9.8	21	-F	2		0035	110	1.5	
81 MANI	13	0629	0637	0657	S13	W49	.749	13532	9.6	28	-F	2		0637	40	.6	
82 ABST	13	0801E	0804	0815D	S11	W50	.760	13532	9.6	14D	1N		P	0804	131	2.1	
	13	1002	1025	NO FLARE PATROL													

Hα SOLAR FLARES

MARCH 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS		MEASUREMENTS			REMARKS
	DATE 1975 MAR	START	MAX. PHASE	END	APPROX LAT.	APPROX MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY	MIN.		CONG	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
083 PAMY	13	1207	1209	1220	S15	W48	.739	13532	9.9	13	-F	4	C		32		
084 HUAN	13	1710		1717D	S13	W56	.823	13532	9.5	7D	-F		P				
GRP62085	13	1919+2	1921+1	1929	S14	W54	.803	13532	9.8	10	-F				20	.3	
BOUL	13	1919	1921	1932	S15	W53	.793	13532	9.8	13	-F	2	C	1921	11	.2	
HUAN	13	1921	1922	1925	S14	W55	.813	13532	9.7	4	-F		C	1922	30	.5	
086 HUAN	13	1947E		1948	S13	W56	.823	13532	9.6	1D	-F		P				
087 BOUL	13	2041	2045	2055	S14	W57	.832	13532	9.6	14	-F	2	C	2045	11		
GRP62088	14	0058+1	0107	0125	S14	W57	.832	13532	9.8	27	-N				100	1.8	J
VORO	14	0058E		0119	S16	W57	.833	13532	9.8	21D	-B		C	0104	99	1.7	EJ
MANI	14	0059	0107	0131	S13	W57	.832	13532	9.8	32	-N	2		0107	100	1.7	F
089 HUAN	14	1912		1934D	S12	W78	.934	13532	9.6	22D	-F		P	1929	35		
	14	1934	1936	NO FLARE PATROL													
	14	2202	2220	NO FLARE PATROL													
GRP62090	14	2330	2353+0	0022	S13	W70	.933	13532	9.7	43	1N				90		J
VORO	14	2339	2353	0021	S15	W70	.933	13532	9.7	42	1B		C	2353	108	2.9	EJ
MANI	14	2351E	2353	0022D	S12	W70	.934	13532	9.7	31D	-N	1		2353	80	1.7	F
	15	0220	0248	NO FLARE PATROL													
	15	0250	0302	NO FLARE PATROL													
091 ARCE	15	0840E		1000D	S12	W80	.991	13532	9.4	80D	-N		C	0921	68		
092 ARCE	15	0906E		0921	S13	W12	.228	13540	14.5	15D	-F		C	0913	65		
093 ARCE	15	0913E		0925D	S10	W48	.737	13538	11.8	12D	-F		P	0913	22		
094 HTPS	15	1024	1026	1031	S12	W80	.981	13532	9.4	7	-F		C	1026	20		
095 RAMY	15	1831	1835	1845	S13	W82	.987	13532	9.6	14	-F	4	C		23		
096 BOUL	15	2339	2344	2349	S13	W90	1.000	13532	9.2	10	-F	2	C	2344	11		
097 ABST	16	0601E	0608	0630D	S15	W39	.999	13532	9.6	29D	?F		P	0608	87		
		IMP 2	NO:	CULG2	TACH2												
098 ABST	16	0650E	0652	0700D	S11	W61	.868	13538	11.7	10D	-F		P	0652	70	1.4	
099 ABST	16	0809	0816	0858	S11	W61	.868	13539	11.8	49	-F		C	0816	70	1.4	
GRP62100	16	0915+8	0917+0	0947D	S11	W61	.868	13538	11.8	32	-F				30	.6	
ATHN	16	0915	0917	0947D	S11	W61	.868	13538	11.8	32D	-F	4	C		32		DE
ATHN	16	0915	0917	0947D	S11	W61	.868	13538	11.8	32D	-F	4	V		32		DE
101 RAMY	16	1216	1225	1252	S10	W62	.877	13538	11.9	36	-F	4	C		45		H
GRP62102	16	1312+2	1317+0	1325	S11	W64	.893	13539	11.7	13	-F				30	.7	
HUAN	16	1312E		1313D	S10	W65	.901	13538	11.7	1D	-F		P	1312	30	.7	
ATHN	16	1314	1317	1325	S11	W63	.885	13538	11.8	11	-F	5	V		32		DE
ATHN	16	1314	1317	1325	S11	W63	.885	13538	11.8	11	-F	5	C		32		DE
103 RAMY	16	1411	1417	1426	S12	W63	.885	13538	11.9	15	-F	4	C		27		
104 BOUL	16	1916	1939	1952	S16	W31	.524	13540	14.5	34	-F	1	C	1939	11	.1	
	17	0207	0213	NO FLARE PATROL													
GRP62105	17	0844+9	0903	0907	S14	W39	.628	13540	14.4	23	-N				35	.5	
ARCE	17	0844E		0908D	S13	W40	.640	13540	14.4	24D	-N		C	0902	46	.6	
MONT	17	0901	0903	0906	S05	W38	.613	13540	14.5	5	-N		C	0903	20		B
	17	1100	1105	NO FLARE PATROL													
	17	1115	1125	NO FLARE PATROL													
	17	1140	1205	NO FLARE PATROL													
106 HUAN	17	1748		1751	S09	W85	.994	13538	11.4	3	-F		C				
107 RAMY	17	1754E		1755D	S17	W90	.999	13538	11.0	1D	-B	4	C				
	18	0132	0135	NO FLARE PATROL													

Hα SOLAR FLARES

MARCH 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 MAR	START	MAX. PHASE	END	APPROX LAT.	APPROX MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		CONG	TYPE	TIME UT	MEAS. AREA Millionths of Disk	CORR AREA Sq. Deg.	
	18	0150	0158	NO FLARE PATROL													
108 HTPR	18	0800	0806	0810	S08	W33	.540	13545	15.9	10	-F		C	0806	10		
109 HTPR	18	0815	0851	0900	S13	W58	.842	13540	14.0	45	-F		C	0851	30		
110 HTPR	18	0937	0941	1030	S13	W59	.851	13540	14.0	53	-F		C	0941	20		
111 HTPR	18	1047	1051	1112	S08	W36	.583	13545	15.7	25	-F		C	1057	10		
112 HTPR	18	1100	1103	1108	S13	W60	.859	13540	14.0	8	-F		C	1103	20		
GRP62113	18	1136	1138 1144	1219	S08	W36	.583	13545	15.8	43	-F						E
HTPR	18	1136	1138	1219	S08	W36	.583	13545	15.8	43	-F		C				E
HTPR	18	1136	1144	1219	S08	W36	.583	13545	15.8	43	-F		C	1144	20	.2	E
114 HTPR	18	1216	1219	1229	S13	W61	.868	13540	13.9	13	-F		C	1219	10		
	18	1825	1831	NO FLARE PATROL													
	18	1833	1851	NO FLARE PATROL													
	18	2016	2018	NO FLARE PATROL													
	18	2028	2034	NO FLARE PATROL													
	18	2047	2106	NO FLARE PATROL													
	18	2109	2116	NO FLARE PATROL													
	18	2328	2330	NO FLARE PATROL													
	19	0013	0025	NO FLARE PATROL													
GRP62115	19	1505	1505+3	1516	S14	W70	.933	13540	14.4	11	-F						
HTPR	19	1505	1508	1516	S14	W70	.933	13540	14.4	11	-F		C	1508	20		
HTPR	19	1505	1505	1516	S14	W70	.933	13540	14.4	11	-F		C				
	19	1720	1742	NO FLARE PATROL													
	19	1748	1844	NO FLARE PATROL													
116 HTPR	21	0807	0810	0820	N10	W73	.964	13544	15.9	13	-F		C	0810	10		
117 HTPR	21	0859	0910	0919	N10	W75	.973	13544	15.7	20	-N		C	0910	30		
118 HTPR	21	0956	1007	1053	N10	W75	.973	13544	15.8	57	-F		C	1007	30		
GRP62119	21	1110	1112 1118	1125	N10	W76	.977	13544	15.8	15	-F						E
HTPR	21	1110	1112	1125	N10	W76	.977	13544	15.8	15	-F		C				E
HTPR	21	1110	1118	1125	N10	W76	.977	13544	15.8	15	-F		C	1118	30		E
120 HTPR	21	1140	1150	1215	N10	W76	.977	13544	15.8	35	-N		C	1150	30		
121 HTPR	21	1234	1235	1305	N10	W76	.977	13544	15.8	31	-N		C	1235	30		
122 HUAN	21	1556E		1606D	N08	W82	.993	13544	15.5	100	-F		P				
	21	1846	1942	NO FLARE PATROL													
	21	1946	1949	NO FLARE PATROL													
123 HUAN	21	1949E		2005D	N07	W85	.997	13544	15.5	160	-F		P	1952	30		
	21	2005	2014	NO FLARE PATROL													
	21	2026	2030	NO FLARE PATROL													
	21	2034	2041	NO FLARE PATROL													
GRP62124	21	2242	2244+1	2249	N07	W85	.997	13544	15.6	7	-F				20		DG
VORO	21	2242	2244	2247	N05	W88	1.000	13544	15.3	5	-F		C	2244	18	1.2	DG
PALE	21	2244E	2245U	2249	N07	W85	.997	13544	15.6	5D	-F	3	V		30		DE
PALE	21	2244E	2244U	2249	N08	W81	.991	13544	15.9	5D	-F	2	C		22		DE
GRP62125	22	0128E	0129+0	0138	N08	W85	.998	13544	15.7	10	-F				25		
PALE	22	0128E	0129U	0133D	N08	W87	.999	13544	15.5	5D	-F	2	V		25		DE
PALE	22	0129E	0129U	0138	N08	W84	.996	13544	15.8	9D	-F	2	C		18		DE
	22	2021	2110	NO FLARE PATROL													
	23	1906	1913	NO FLARE PATROL													
126 RAMY	23	2013	2017	2031	N16	E47	.787	13547	27.4	18	-F	3	C		27		
	23	2223	2225	NO FLARE PATROL													
	23	2331	2336	NO FLARE PATROL													
	23	2340	2350	NO FLARE PATROL													
	24	0125	0130	NO FLARE PATROL													

Hα SOLAR FLARES

MARCH 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 MAR	START	MAX. PHASE	END	APPROX LAT.	APPROX MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMR DAY	MIN.		CONF.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
	25	0309	0310	NO FLARE PATROL													
	25	1901	1916	NO FLARE PATROL													
	25	1925	2021	NO FLARE PATROL													
	25	2100	2121	NO FLARE PATROL													
127 HTPR	26	1239	1246	1256	S07	W02	.035	13561	26.4	18	-F		C	1246	20		
128 HTPR	26	1310		1440	N10	W90	1.000	13560	19.8	90	-F		C	1323	20		
	27	1657	1709	NO FLARE PATROL													
	27	1717	1721	NO FLARE PATROL													
	29	0150	0156	NO FLARE PATROL													
129 ABST	29	0744	0749	0803	N14	E56	.860	13564	2.5	19	-F		C	0749	87	1.9	
	30	0100	0108	NO FLARE PATROL													
	30	0120	0128	NO FLARE PATROL													
	30	0132	0140	NO FLARE PATROL													
	30	0145	0153	NO FLARE PATROL													
	30	0200	0210	NO FLARE PATROL													
130 ABST	30	0738	0739	0745	S15	E85	.994	13569	5.7	7	?F		C	0739	87		
		IMP 2	NO:	TEHR1													
131 ABST	30	1116	1122	1126	N01	E36	.598	13567	2.2	8	-F		C	1122	87	1.1	
	30	2127	2129	NO FLARE PATROL													
	30	2131	2318	NO FLARE PATROL													
	30	2322	2335	NO FLARE PATROL													
	31	0014	0024	NO FLARE PATROL													
	31	0055	0140	NO FLARE PATROL													
	31	0150	0200	NO FLARE PATROL													
132 KODA	31	0236	0237	0345	S17	E75	.960	13568	5.7	69	-N		V	0239			
	31	1934	1941	NO FLARE PATROL													
	31	2051	2053	NO FLARE PATROL													

Hα SOLAR FLARES

APRIL 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS		MEASUREMENTS			REMARKS
					APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMR DAY			CONC	TYPE	TIME	MEAS. AREA	CORR AREA	
	DATE 1975 APR	START	MAX. PHASE	END	LAT.	MER. DIST.				MIN.				UT	Mill. of Disk	Sq. Deg.	
	01	1938	1943	NO FLARE PATROL													
	02	2032	2110	NO FLARE PATROL													
	02	2115	2123	NO FLARE PATROL													
	03	1828	1918	NO FLARE PATROL													
	03	1926	1932	NO FLARE PATROL													
	03	1940	1941	NO FLARE PATROL													
	03	1954	2018	NO FLARE PATROL													
	03	2024	2039	NO FLARE PATROL													
	03	2103	2120	NO FLARE PATROL													
	03	2139	2155	NO FLARE PATROL													
133 HONA	05	2213	2215	2223	N08	E77	.979	13576	11.7	10	-F		C	2215			
GRP62134	06	1033+4	1037+0	1046	N06	E69	.939	13576	11.6	13	1F						DGJ
ABST	06	1033	1037	1048	N09	E70	.948	13576	11.7	15	1F		C	1037	87		DGJ
KHAR	06	1037	1037	1043	N03	E69	.937	13576	11.6	6	1F						D
135 CATA	06	1050	1050	1055	N08	E68	.935	13576	11.6	5	-F	3		1050	56		
	08	0135	0142	NO FLARE PATROL													
	08	0216	0222	NO FLARE PATROL													
136 ABST	08	0519	0520	0540	N08	E44	.721	13576	11.5	21	-F		C	0520	50		
	09	2025	2045	NO FLARE PATROL													
	09	2053	2113	NO FLARE PATROL													
GRP62137	09	2358+6	0003+4	0014	N02	W03	.150	13584	9.8	16	-F				50	.5	F
MANI	10	0004	0007	0035	N03	W03	.165	13584	9.8	31	-F		C	0007	40	.4	F
MANI	10	0004	0023	0035	N03	W03	.165	13584	9.8	31	-N			0023	50	.5	
PALE	09	2358E	2403	0014	N02	W03	.150	13584	9.8	160	-F	2	V		45		
PALE	09	2358E	2403	0014	N02	W03	.150	13584	9.8	160	-F	2	C		45		
138 ABST	10	0504	0506	0510	N02	W07	.184	13584	9.7	6	-F		C	0506	50		
	11	2045	2055	NO FLARE PATROL													
	11	2115	2120	NO FLARE PATROL													
	11	2127	2132	NO FLARE PATROL													
	11	2217	2222	NO FLARE PATROL													
	12	1230	1248	NO FLARE PATROL													
	13	0736	0741	NO FLARE PATROL													
	13	0748	0753	NO FLARE PATROL													
	14	2028	2039	NO FLARE PATROL													
	14	2155	2200	NO FLARE PATROL													
	15	0953	1018	NO FLARE PATROL													
	15	1109	1110	NO FLARE PATROL													
	15	1136	1220	NO FLARE PATROL													
139 HUAN	17	2018	2021	2031	S03	E76	.969	13624	23.5	13	-F	1	C	2021	25		
	17	2053	2121	NO FLARE PATROL													
	19	0500	0510	NO FLARE PATROL													
	19	0513	0525	NO FLARE PATROL													
	20	0243	0246	NO FLARE PATROL													
	20	1323	1325	NO FLARE PATROL													
	20	1645	1653	NO FLARE PATROL													
	20	1655	1700	NO FLARE PATROL													
	21	0200	0208	NO FLARE PATROL													
140 HTPR	23	0750	0802	0803	N10	E72	.958	13622	28.7	13	-F		C	0802	20		
141 HTPR	23	1250	1252	1304	N08	W03	.230	13624	23.3	14	-F		C	1252	20		
	23	2049	2104	NO FLARE PATROL													
	23	2111	2118	NO FLARE PATROL													
	25	0653	0701	NO FLARE PATROL													
	25	0722	0800	NO FLARE PATROL													
142 HTPR	25	1245	1247	1257	N10	E42	.700	13622	27.7	12	-N		C	1247	30		
143 HTPR	25	1333	1336	1340	S05	E12	.207	13633	25.5	7	-F		C	1336	30		
	25	1923	1928	NO FLARE PATROL													
	25	2121	2124	NO FLARE PATROL													
144 HTPR	26	1159	1203	1208	N01	E87	.999	13628	3.0	9	-F		C	1204	20		

Hα SOLAR FLARES

APRIL 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS		MEASUREMENTS			REMARKS
	DATE 1975 APR	START	MAX. PHASE	END	APPROX LAT.	APPROX MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMR DAY	MIN.		CONC.	TYPE	TIME UT	MEAS. AREA Millionths of Disk	CORR AREA Sq. Deg.	
145 HTPR	26	1400	1400	1403	N01	E86	.998	13628	3.0	3	-F		C	1400	20		
	26	2333	2341	NO FLARE PATROL													
	27	0640	0642	NO FLARE PATROL													
GRP62146	27	1107+3	1112+1	1118	N03	E68	.930	13628	1.6	11	-F				35		D
RAMY	27	1107	1112	1118	N04	E69	.936	13628	2.6	11	-F	3	C		22		DE
MEUD	27	1110	1113	1117	N02	E68	.929	13628	2.6	7	-N		C	1113	50		D
	27	2206	2209	NO FLARE PATROL													
	27	2219	2237	NO FLARE PATROL													
GRP62147	29	1653>9	1712	1732	N09	W69	.940	13630	24.5	39	-F						E
HTPR	29	1653		1707D	N10	W70	.947	13630	24.5	140	-F		C	1656	20		E
BOUL	29	1705	1712	1732	N09	W69	.940	13630	24.5	27	-F	2	P	1712	21	.6	
GRP62148	29	2051E	2053+8	2059	00	E34	.563	13628	1.4	8	-F				70	.8	F
PALE	29	2051E	2053U	2056D	S01	E35	.575	13628	2.5	50	-F	3	C		70		F
PALE	29	2052E	2053U	2059	N02	E33	.553	13628	2.3	70	-F	3	V		80		F
	29	2112	2123	NO FLARE PATROL													
GRP62149	29	2255	2259+7	2311	N01	E33	.551	13628	1.4	16	-N				80	1.0	EGJU
VORO	29	2255	2259	2307	N03	E33	.556	13628	2.4	12	-B		C	2259	108	1.3	EGJ
MANI	29	2258E	2303	2309D	N01	E33	.551	13628	2.4	110	-N		V	2303	60	.8	
PALE	29	2301E	2306U	2313	N02	E33	.553	13628	2.4	120	-F	3	V		80		U
PALE	29	2301E	2306U	2313	S01	E34	.561	13628	2.5	120	-F	3	C		61		U
	30	0209	0220	NO FLARE PATROL													
150 HTPR	30	0917	0919	0923	N10	W78	.982	13630	24.5	6	-F		C	0919	20		
151 PALE	30	1956E	19573	2000	S10	E60	.864	13634	5.3	40	-F	3	V		15		
	30	2100	2105	NO FLARE PATROL													

REGIONAL FLARE INDEX

INCLUDES ALL FLARES

FEBRUARY 1975

NC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
13459	N 7	75/02/03.5	75/01/30	75/01/30	1.90	1.90	1
13465	S11	75/02/07.7	75/02/02	75/02/13	58.42	4.87	27
13470	N 3	75/02/09.6	75/02/03	75/02/13	115.42	10.49	45
13499	N 9	75/02/20.5	75/02/20	75/02/20	16.70	16.70	3
13503	N 2	75/02/22.4	75/02/22	75/02/22	11.39	11.39	2
13506	S 9	75/02/24.7	75/02/23	75/02/27	22.72	4.54	5
13517	N13	75/02/28.7	75/03/02	75/03/05	7.24	1.81	4

MARCH 1975

NC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
13532	S13	75/03/09.9	75/03/12	75/03/16	79.04	15.81	27
13527	N 8	75/03/11.6	75/03/06	75/03/06	.84	.84	1
13538	S10	75/03/11.8	75/03/15	75/03/17	7.99	2.66	9
13540	S13	75/03/14.5	75/03/15	75/03/19	14.66	2.93	8
13544	N 7	75/03/16.8	75/03/21	75/03/22	7.48	3.74	10
13545	S 8	75/03/16.4	75/03/18	75/03/18	10.13	10.13	3
13560	N10	75/03/20.1	75/03/26	75/03/26	.84	.84	1
13561	S 7	75/03/26.4	75/03/26	75/03/26	5.28	5.28	1
13547	N13	75/03/27.4	75/03/23	75/03/23	1.90	1.90	1

DAILY FLARE INDICES

Includes all Flares

Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.
				MARCH 1975				
750302	3.39	23.9	750313	22.09	23.6	750323	1.90	23.6
750303	2.17	20.2	750314	10.40	23.7	750324	0.00	23.9
750304	.84	24.0	750315	10.65	23.3	750325	0.00	22.5
750305	.84	24.0	750316	7.71	24.0	750326	6.12	24.0
750306	.84	24.0	750317	2.39	23.3	750327	0.00	23.7
750309	0.00	23.7	750318	14.74	22.8	750329	.84	23.9
750310	0.00	23.2	750319	.88	22.5	750330	3.65	21.3
750311	0.00	23.7	750321	7.18	22.7	750331	.84	22.8
750312	43.17	24.0	750322	.34	23.2			
				APRIL 1975				
750401	0.00	23.9	750411	0.00	23.6	750421	0.00	23.9
750402	0.00	23.2	750412	0.00	23.7	750423	6.13	23.6
750403	0.00	21.9	750413	0.00	23.8	750425	7.34	23.1
750405	.84	24.0	750414	0.00	23.7	750426	1.69	23.9
750406	4.22	24.0	750415	0.00	22.8	750427	.65	23.6
750408	1.90	23.8	750417	.85	23.5	750429	6.81	23.8
750409	1.33	23.3	750419	0.00	23.6	750430	1.69	23.7
750410	5.28	24.0	750420	0.00	23.7			

When no Flare Index is given, it is 0 for that day.

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UAG-31 "Auroral Electrojet Magnetic Activity Indices AE (11) for 1969", by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, February 1974, 142 pages, price 75 cents.

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